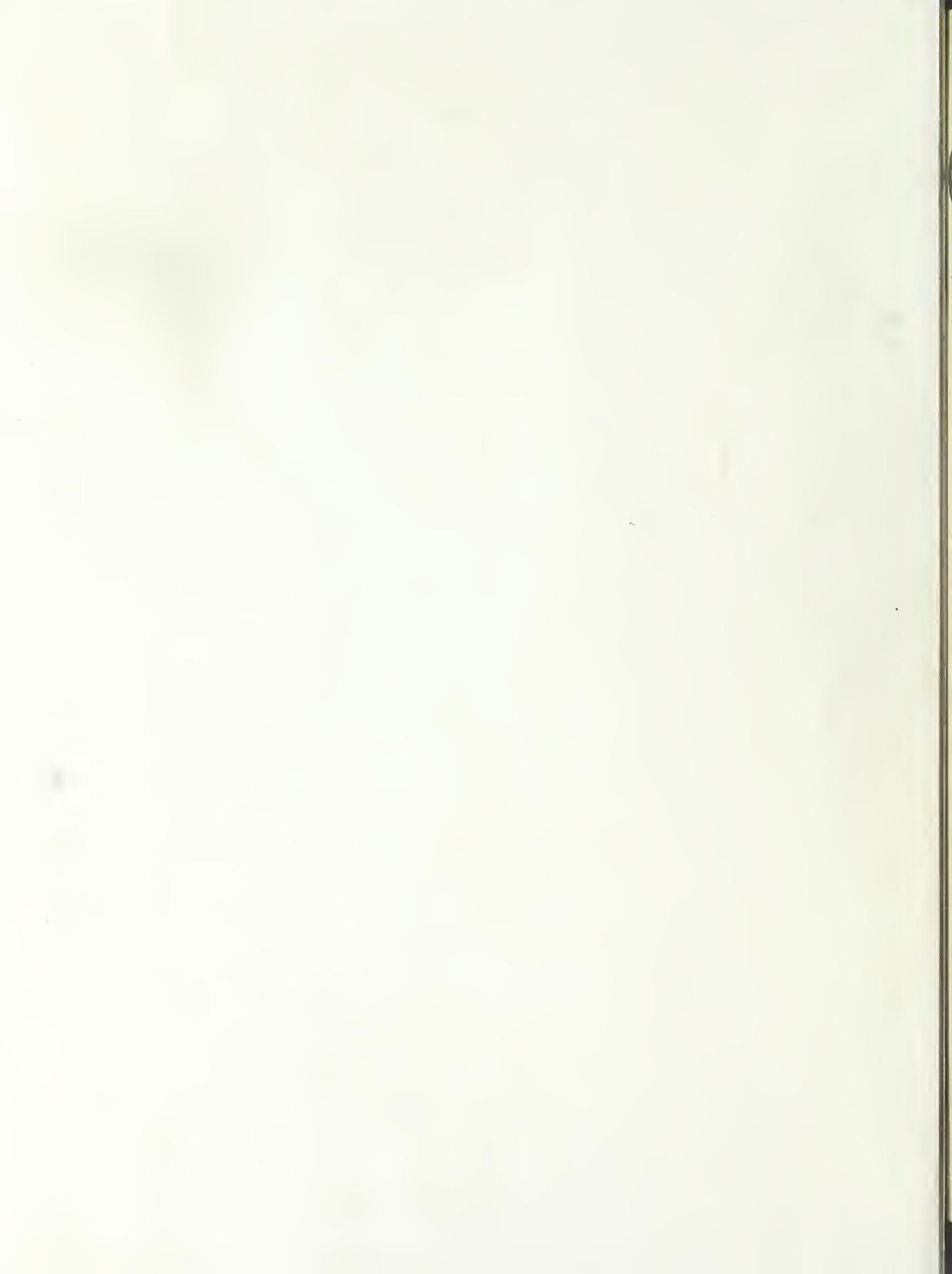




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The

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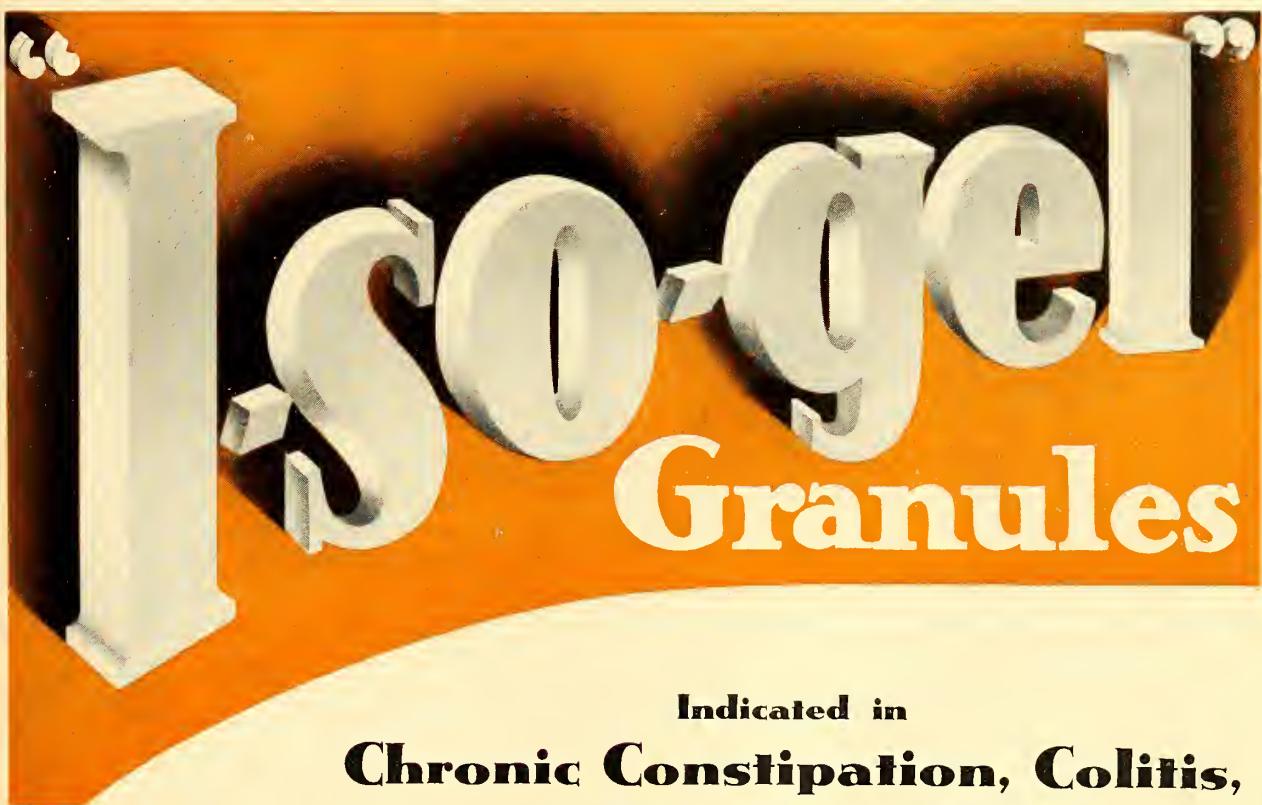
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No. 2746
VOL. CXVII.

SEPTEMBER 24, 1932

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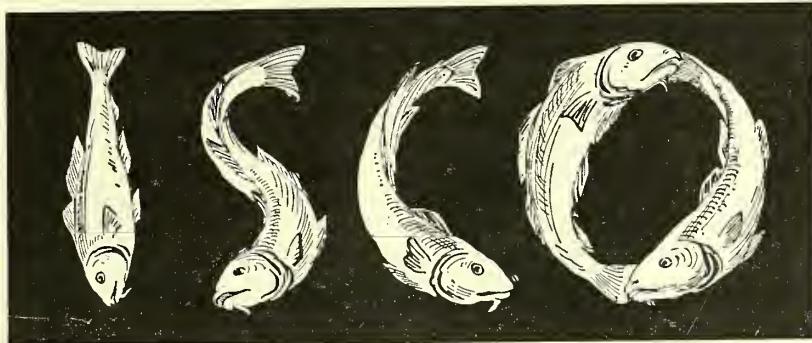
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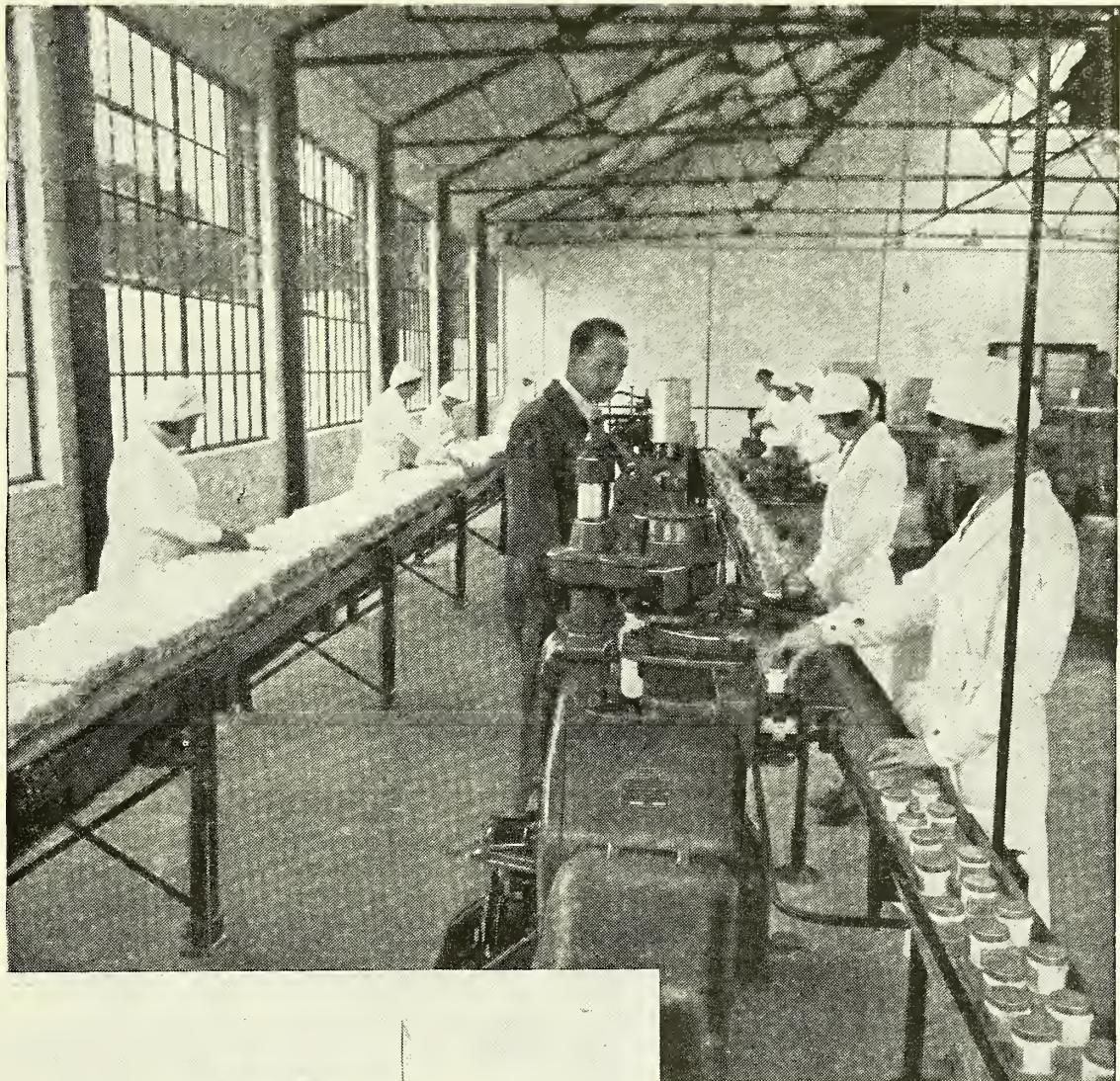
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Stafford Allen & Sons cultivate the herb on their medicinal plant farms at Long Melford. The seed is sown in March and the plant matures in August. Before gathering the dried fruits the plants are cut down close to the base and allowed to ripen on the ground for a day or two. The fruits are then sifted so as to separate the ripened ones from the

DILL ENGLAND Staff Allen S

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Est.



1833

unripened which remain attached to the umbels. The latter are used for distillation of the oil. The heads are gathered in their entirety when distillation of the oil is the sole object, but just before the fruits are quite mature. As the oil distilled from the freshly cut immature heads is considered pleasanter in odour and is more readily extracted it is an advantage to have distilleries close at hand, so that the fruits may be taken immediately after collection to the stills. This obtains at Long Melford.

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INDEX TO ADVERTISERS

| | | | | | |
|---|----------------|--|-------------|---|-------------|
| Addis, R., & Son (Tooth Brushes) | 8 | Bronnley, H., & Co., Ltd. (Toilet Luxuries) | iii | Eno, J. C., Ltd. (Eno's Fruit Salt) | Leader Page |
| Allen & Hanburys, Ltd. (I-so-gel Granules) | Cover | Burral Bros. (D. & P. Books) | 46 | Esperis (Italian Essential Oils) | 46 |
| Allen, Stafford, & Sons, Ltd. (Dill) | 4 | Burrough, James, Ltd. (Alcohol) | Leader Page | Eucryl, Ltd. (Dentifrices) | 24 |
| Anadin, Ltd. (Anodyne Compound Tablets) | xxii | Burroughs Wellcome & Co. (Chemicals and Galenicals) | 53 | Evans, Norman, & Rais, Ltd. (Raseyan) | 46 |
| Anglo-French Drug Co., Ltd. (Bivatol, &c.) | xxii | Bussell, T. C. (Bottle Caps) | 32 | Fairchild Bros. & Fcster (Panopepton) | Leader Page |
| Anzora Perfumery Co., Ltd. (Anzora Cream, &c.) | xiv | Calmon & Neate, Ltd. (Face Cream) | 27 | Gardiner & Co. (The Scotch House), Ltd. (Overalls) | 33 |
| Armstrong Cork Co., Ltd. (Corks) | 31 | Calvert, F. C., & Co., Ltd. (Pumice Soap) | 8 | George, Ernest J. (Valuer, &c.) Col. Supp. | xxv |
| Arnfield, J. C., & Sons, Ltd. (Cocoanut Oil Shampoo, &c.) | xix | Carnegie Bros., Ltd. (Chemicals, &c.) | xix | Glaxo Laboratories (Adexolin Capsules, &c.) | 6 |
| Assoc. of Manfg. Chts., Ltd. Col. Supp. Ayer, Harriet Hubbard, Ltd. (Toilet Preparations) | Cover | Carter Bros. (Slumber Tea) | xxvi | Gollin & Co. Pty., Ltd. (Aspro) | xxix |
| Ayrton-Graham, Ltd. (Shopfittings) | 48 | Castle Huskisson, Ltd. (Tablets, &c.) | xx | Goodall, Backhouse & Co. (Hair Fixative, &c.) | iv |
| Baker Metal Stopper Co., Ltd. (Screw Caps, &c.) | 28 | Cavendish Chemical Co. (New York), Ltd. | xxii | Griffin & Tatlock, Ltd. (Pharmaceutical Machinery) | 34 |
| Battle, Hayward & Bower (Marking Paint Sticks) | 44 | Charles Roger Laboratories, Ltd. (Crème Siamoise) | xvi | Grout & Co., Ltd. (Crêpe Bandages) | 29 |
| Bayer Products, Ltd. (Pharmaceutical Products) | xx | Christy, T., & Co. (Cachet Machines, Pyshan Points Tea, &c.) | 28-46-54 | Guest, T., & Co., Ltd. (Jodisid Throat Tablets) | 10 |
| Beaton, Clark & Co., Ltd. (Bottles) | 31 | Clark, Cicero S. (Cachets) | xxx | Hack, Edward (Anti-Thrax Tooth Brushes) | xiii |
| Beechams Pills, Ltd. (Pills and Powders) | xxxix | Clark, S. F. (Valuer, &c.) | Col. Supp. | Hackett, S. E. (Film Overstocks) | Col. Supp. |
| Bell, John, Hills & Lucas, Ltd. (Pharm. Preps.) | Cover | Clarocit Co., Ltd. (Moisture Preventer) | 48 | Hall, Forster & Co., Ltd. (Vaporisers) | 46 |
| Benger's Food, Ltd. (Foods) | 54 | Clay & Abraham, Ltd. (Ephedrol) | xxvii | Haller Labs., Ltd. (Danysz Virus) | 44 |
| Bennett, Sons, & Shears, Ltd. (Machinery) | 34 | Clayton & Jowett, Ltd. (Cologne Perfumes, &c.) | xiv | Hampshire, F. W., & Co. (1927), Ltd. (Snowfire Cream) | xii |
| Berdoe & Fish, Ltd. (Valuers) Col. Supp. | | Constipon Tablets | xxiv | Hampson, Fredk. (British Bottles) | 30 |
| Berman, A., & Sons (Rubber Goods) | 29 | Continental Laboratories, Ltd. (Uralysol) | xxix | Harrison, A., & Sons, Ltd. (Printing) | 10 |
| Berton, Arthur, Ltd. (Hot Water Bottles) | 26 | Cora Hotel | 23 | Harvey & Co. (Dublin), Ltd. (Vetny) | 44 |
| Bettis & Co., Ltd. (Collapsible Tubes) | 48 | Crookes Laboratories (Iodine and B'ackcurrant Pastilles) | xxxv | Haywood, J. H., Ltd. (Surgical Appliances) | 26 |
| Blackie, R. (Spun Ointments) | xxvi | Cussons, Sons & Co., Ltd. (Lavender Series Toiletries) | 38-39 | Hornby & Co. (Hall), Ltd. (Tins) | 46 |
| Blythe, W., & Co., Ltd. (Chemicals) | ii | Cuxson, Gerrard & Co., Ltd. ("Zudor" Jackets) | 45 | Horner, L. A., & Sons (Drugs, &c.) | xvi |
| Bob Martin, Ltd. (Dog Remedies) | 43 | Dalmas, A. de St., & Co., Ltd. (Packed Goods) | 46 | Houbigant "Quelques Fleurs" Face Powders) | ix |
| Bourjois, A., et Cie, Ltd. (Christmas Gift Coffrets) | 14-15 | Davenport, J. T., Ltd. (Chlorodyne) | xxvii | Imperial Chemical Industries, Ltd. (Chloride of Lime) | xxi |
| Box, W. H. (Box's Pills) | xxviii | Dearborn (1923), Ltd. (Toilet Specialities) | 16 | Ingram & Toyle, Ltd. (Mineral Waters) | 51 |
| Bredt, W., Ltd. (Quadronal, &c.) | xix | Dew, John, Ltd. (Toilet Soaps) | 21-22 | International Bottle Co., Ltd. (Opal Jars) | xviii |
| Brierley, John (Valuer, &c.) | Col. Supp. | Dubarry Perfumery Co., Ltd. (Christmas Gifts) | Cover | Iva Manf. Co. (Fur Puffs) | x |
| Bristol, T. F., & Co., Ltd. (Beauty Powder) | vii | Dudley & Co., Ltd. (Glass Counters) | 49 | Jackson, Ernest, & Co., Ltd. (Glossettes, &c.) | xx |
| Britannia Laboratories, Ltd. (Snow) | xii-Col. Supp. | Eade, Geo., Ltd. (Rheumatic Pills) | xxii | Jackson, J. P., & Co., Ltd. (Pilling Machines) | 34 |
| British Thomson-Houston Co., Ltd. (Mazda Lamps) | 47 | Edge, W., & Sons, Ltd. (Dyes) | 32 | English Grains Co., Ltd. (Yestamin) | 50 |

(Continued overleaf.)

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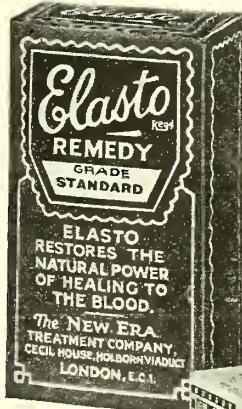
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INDEX—cont.

| | |
|--|---|
| Johns, Son & Watts, Ltd. (Cartons) viii | Ocean Blades (Gt. Britain), Ltd. 24 |
| Johnson & Sons Manufacturing Chemists, Ltd. (Pharmaceutical Chemicals, &c.) ii | Orralite Co., Ltd. (Denture Soap) 25 |
| Josephs, Philip, & Sons (Shopfittings) 42-Col. Supp. | Orridge & Co. (Valuers, &c.) Col. Supp. |
| Kalisky, S. (Aldgate), Ltd. (Tim Blades) 23 | Pam Manfg. Co., Ltd. (Sanitary Pads) 45 |
| Kent, G. B., & Sons, Ltd. (Brushes) 24 | Papier Poudré, Ltd. (Nail Polish) .. 25 |
| Klein, Jos. (Chip Boxes) 46 | Parfumerie de Fleury (Perfumes) .. 9 |
| Lax & Shaw, Ltd. (Bottles) 52 | Parkinsons, Ltd. (Sugar-coated Pils) Leader Page |
| Lee, R. (Manicure Requisites) 25 | Parsecent, Limited (Floral Perfumes) xii |
| Leyland & Birmingham Rubber Co., Ltd. (Hot Water Bottles) 40 | Penco, Ltd. (Mouson Perfumery) xi |
| Lighthorn, J. W., & Sons, Ltd. (Grips Pastilles, New Display) 13 | Perken, Son, & Co., Ltd. (Clinical Thermometers) 29 |
| Lincoln & Midland Counties Drug Co., Ltd. (Clarke's Blood Mixture) xxxiv | Perry's Powders, Ltd. xxvi |
| Liverpool School of Pharmacy 49 | Phillips Patents, Ltd. (Permenda) .. xiv |
| Lloyd, Aimee, & Co., Ltd. (Euxesis) .. 8 | Pifco, Ltd. (Sharpxe Razor Blade Sharpener) x |
| London College of Pharmacy 49 | Pollard, E., & Co., Ltd. (Shopfittings) 28 |
| Mandal & Co., Ltd. (Licorice) .. xxvi | Poud's Extract Co. (Cold Cream, &c.) 3 |
| Marlborough & Co., Ltd. (Queen Anne Lavender Water) 27-35 | Potter & Clarke, Ltd. (Wholesale Druggists) 36-37 |
| Martin, Bob, Ltd. (Dog Remedies) .. 43 | Pouliet, Selfe & Lee, Ltd. (Glassware) 32 |
| Matthews, D., & Son (Shopfittings) 46 | Premo Brushes, Ltd. (All-rubber Brushes) 41 |
| Matthews Laboratories, Ltd. (Digitalis) Leader Page | Prescriber, The 46 |
| Maund, F., & Berg, E., Ltd. (Showcases) 46-Col. Supp. | Prichard & Constance (Manfg.), Ltd. (Wave Set) 23 |
| Maw, S., Son & Sons, Ltd. 11 | Proprietary Agencies, Ltd. (Milk of Magnesia) 54 |
| May, Roberts & Co., Ltd. (Hot Water Bottles) 7 | Pure Russ. Liq. Paraffin Co., Ltd. xxxii |
| Medway Corrugated Paper Co., Ltd. (Corrugated Papers, &c.) xxxvi | Reuter, R. J., Company, Ltd. (4711 Eau de Cologne) xvii |
| Midgley & Parkinson, Ltd. (Yeast Preps.) xxx | Roberts & Sheppley, Ltd. (Melrose) xxx |
| Miss Muffet Toilet Paper Co. 26 | Robinson & Sons, Ltd. (Perfumery Boxes) 16 |
| Molson Iodine Co., Ltd. 46 | Ronaldson, J., & Co. (Senna) xxvi |
| Mundet Cork Products, Ltd. (Bakelite Stoppers, &c.) 33 | Roneo, Ltd. (Booklet) 49 |
| Myers, E. J. (Shopfittings) 28-Col. Supp. | Rudduck & Co. (Shopfittings) Col. Supp. |
| National Chemical Holdings, Ltd. (Foot Bath Salts, &c.) 25 | Ruff & Co. (Face Creams, &c.) viii |
| Newball & Mason, Ltd. (Extract of Herbs) 50 | Saville Perfumery, Ltd. (Coffrets, Shaving Cream, &c.) 17-20 |
| New Era Treatment Co., Ltd. (Elasto) 5 | Schutze, F., & Co., Ltd. (Surgical Appliances, &c.) 29 |
| Nippon Shinyaku Co. (Cancer Treatment) xxx | Scott & Bowne, Ltd. (Williams' Shaving Preparations) v |
| Norwegian Cod Liver Oil xxxv | Scruton, O., & Co. (Nurse Harvey's Mixture) 50 |
| | Scurr, C. A. (Optical Tuition) 49 |
| | Shadeine Co. (Hair Dyes) 46 |
| | Shaving Brushes, Ltd. (Shaving Brushes) vi |
| | |
| | Siarks Toilet Co. (One Drop Perfumes) 25 |
| | Smith, Martin H., Co. (Ergoapitol) .. xxiv |
| | Smith, T. & H., Ltd. (Alkaloids) i |
| | Solazzi (Liquorice) xxiv |
| | Solport Bros., Ltd. (New Gift Lines) xv |
| | Sor-Tox (London), Ltd. (Rat Poison) 44 |
| | Souplex, Ltd. (Safety Razor Blades) 24 |
| | Spencer, Isaac, & Co. (Aberdeen), Ltd. (Cod Liver Oil) 1 |
| | Squire & Sons, Ltd. (Books, &c.) .. xxii |
| | Sterns, Ltd. (Oil's, Petroleum) xxiv |
| | Sturge, J. & E., Ltd. (Precip. Chalk) 1 |
| | Taylor, John (Cimolite Toilet Preps.) 25 |
| | Teasdale & Co., Ltd. (Nipits Throat Pastilles) xxv |
| | Thornton & Ross, Ltd. (Samaritan Olive Oil) xxii |
| | Tilbury, W. R., & Son (Tooth Brushes) 23 |
| | Tomlinson, T., & Son (Valuers, &c.) Col. Supp. |
| | Town Talk Polish Co. (Liquid Silver Polish) 48 |
| | T.P. Company (Colloidal Bath Sulphur) 29 |
| | Treble & Co. (Shopfittings) 46 |
| | Turknit Complexion Cloths vi |
| | Tyler, T., & Co., Ltd. (Chemicals) .. xxi |
| | United Chemists' Association, Ltd. (Heart-shaped Indigestion Tablets) xxvii |
| | United Drug Co., Ltd. (Puretest Products) xxiii |
| | Vareen, Ltd. (Nail Polish) .. Leader Page |
| | Vizgormalt, Ltd. (Malt Extract and Hops) 50 |
| | Viscose Development Co., Ltd. (Bottle Capping) 33 |
| | Wagner, R. V. (Bottle Caps) 33 |
| | Walden, Walden & Co. (Nufix Hair Cream) vi |
| | Ward, T., & Sons, Ltd. (Wardonia Razor) 24 |
| | Warner, W. R., & Co., Ltd. (Sloan's Liniment) 52 |
| | White, J. F., & Co. (Kompo) xxx |
| | Willows, Francis, Butler & Thompson, Ltd. (B.P. Preparations) ii |
| | Wood Bros. Glass Co., Ltd. (Glassware) xvi |
| | Woolley, J., Sons & Co., Ltd. ("Boval" Floor Gloss) 2 |
| | Wright, Layman & Umney, Ltd. (Packed Goods) Cover |
| | Zeal, G. H., Ltd. (Clinicals) 26 |

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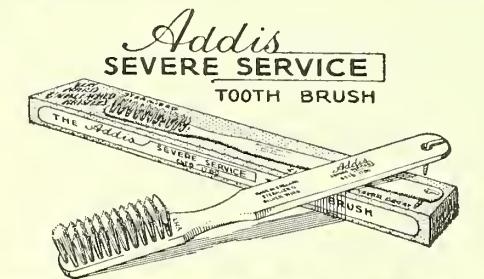
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And at a price which is within the
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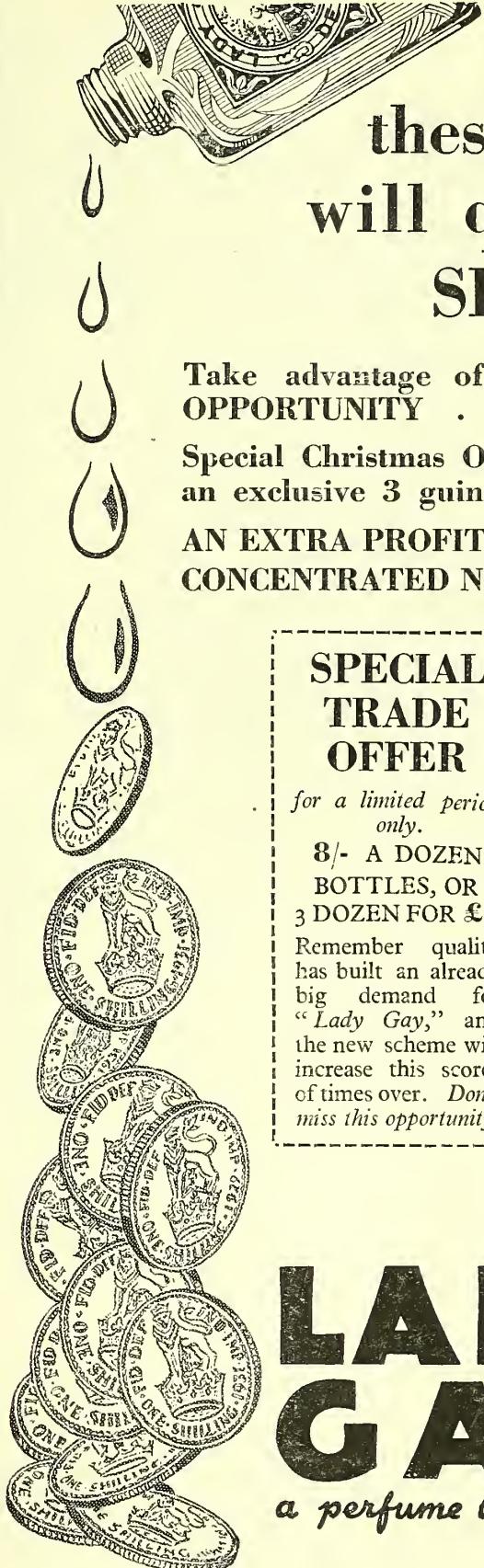
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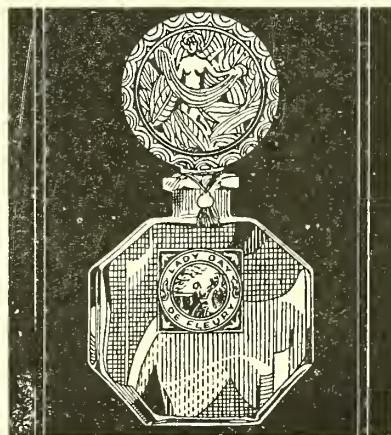
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Do not miss the "Lady Gay" boom. Order early and fully.

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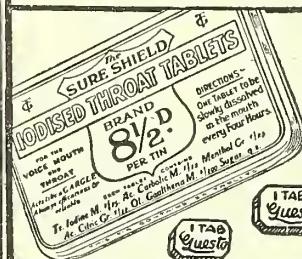
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GAY**
a perfume by de Fleury



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"SURE SHIELD" BRAND Iodised THROAT TABLETS



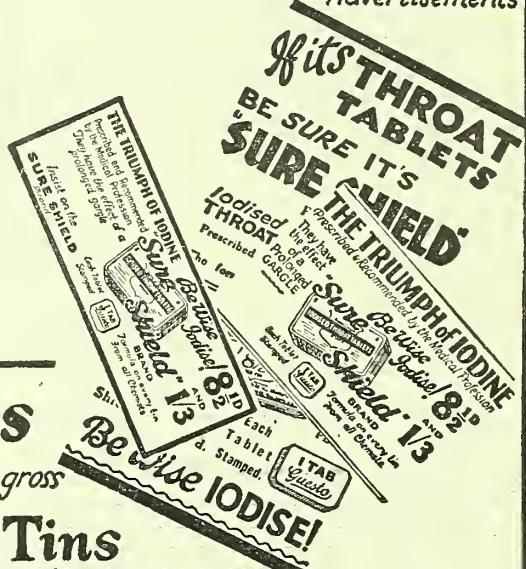
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TELEPHONE: ROYAL 8111

Send your next printing enquiries to—

HARRISON'S
CHEMISTS' & ADVERTISING
PRINTERS

FOLDING BOX
MANUFACTURERS

COLOUR PRINTING OF EVERY DESCRIPTION

We specialise in Labels, Folding Boxes, Envelopes and advertising printing of every description

ALF HARRISON & SONS LTD.

BURLEY ROAD, LEEDS

London Office: Sentinel House, Southampton Row, W.C.1. Phone: Museum 8340

MAW'S



For Surgical and Medical Sundries

Maw's are renowned for the supply of standard medical and surgical sundries. The following are examples of new and improved lines.

"Velfin" Inhaler (Regd. No. 758994). An entirely new design with several distinctive features. Extra wide mouth for easy cleaning, and handle for carrying. Earthenware cover and mouthpiece in one piece. One pint size only, each in box. Per dozen, 30/-.

"Velfin" Nasal and Ear Douches (Regd. No. 760123). Designed and constructed on scientific principles for safe and easy self-administration of watery solutions. Sterilisable, economical and reliable.

"Velfin" Nasal Douche (for watery solutions) 9/3186a (each in box, with directions). $\frac{1}{2}$ oz., 3/3; 1 oz., 3/9 each.

"Velfin" Ear Douche (for watery solutions) 9/3186b (each in box, with directions). $\frac{1}{2}$ oz., 3/3; 1 oz., 3/9 each.

"Velfin" Feeding Cup. Good quality white glazed earthenware. Indented sides. Can be held firmly with either hand. Easy to clean. 9/3039 (each in box). Small, 10/- per dozen; Large, 12/- per dozen.

"Velfin" Drop Bottle, with improved dropper fitted with red moulded I.R. tent and glass tube with safety ball point. Sterilisable. 9/278D (each in card case). 2 drm., 5/6; $\frac{1}{2}$ oz., 6/-; 1 oz., 6/6 per dozen.

S. MAW SON & SONS, LTD., Aldersgate St., London, E.C.1

GO ALL OUT FOR THE WIDER MARKETS



Brand your speciality

The world is open to the enterprising. Many a big business had its beginning in a retail shop. Famous sweetmeats, biscuits, cakes, have become nationally known because their proprietors had the vision to see possibilities in larger outside markets for their goods. They used the power of advertising to spread their name and fame.

If you have a good proprietary speciality, or could make one, why not investigate the prospects of winning a new and wider market for it?

Consult a qualified advertising expert as to the advisability of applying advertising to your business and the prospects of success.

Sound advertising may turn your local business into one of national importance. Why not? See that you make and deliver the right goods, brand them —

Then

ADVERTISE the brand

Issued by The Institute of Incorporated Practitioners in Advertising, 3-4 Clement's Inn, W.C.2, in conjunction with the Federations of Master Process Engravers and Master Printers, etc.



115-3

This means
last year
vertical traffic has shown a material increase
this additional traffic during the last year, is
calculated in the average amount of each
there were more
therefore there
ation system based on the Density Ratio, rather
traffic, volume of business which is contrib-
value of the dollar chan-
customers buy
as a greater
the stores in the
bass and you bring to you
proves the the
Density Ratio? What are
ortation should
cesses
handy an in

Stop Process News

This Colourful Display & Boxes of Grips Pastilles for 27'6



THIS new Display is sent free with orders for the Pastilles on it. The complete Display consists of two 5-lb and one dozen pocket boxes, price 27/6 complete with stout card Stand. Your usual wholesaler will supply it. If you prefer to order it direct please give us your wholesaler's name and address, and enclose remittance.

"GRIPS" PASTILLES

Distributors to the Wholesale and Retail Chemists' Trade:—
THOS. CHRISTY & CO., 4-12 Old Swan Lane, LONDON, E.C.4.

Made by J. W. LIGHTBOWN & SONS LTD., ACCRINGTON.

B B

An "Evening in Paris"



BOURJOIS

Christmas



"Evening in Paris" is now firmly established as the leading line of perfumery. Everywhere the fascinating blue and silver pack dominates and attracts. It makes the most arresting window display. It is supported by a great national advertising campaign and beautiful show material. And now we introduce an exquisite series of Christmas Gift Coffrets, the retail prices ranging from 3/9 to 27/6. Only a few are illustrated here—there is a wide range to suit all tastes and every pocket.

If you have not already received an illustrated price list of these new Coffrets, please write for copy — also particulars of important Display Offer.

A. BOURJOIS ET CIE, LTD., 4, WATER LANE, LONDON, E.C.4
Works and Laboratories: 71-73, CARTER LANE, E.C.4, and UPPER GROUND STREET, S.E.1

BOURJOIS

Perfumery boxes

Robinsons of CHESTERFIELD.

WHEAT BRIDGE MILLS, CHESTERFIELD & 168, OLD STREET, LONDON, E.C.1.

Mercolized Wax

for the Complexion

Extensively Advertised. Always in Demand.

*There is no risk in holding full stocks.
Every woman is a potential buyer.
Sales are regular and repeats certain.*

Stallax

*a Shampoo—also popular,
and shows a handsome profit.*

Dearborn
(1923) Limited
37 Gray's Inn Rd. London. W.C.1.



These

NEW LINES of Saville's

JUNE

Perfumery Series

Create **NEW** Business

This new 1/- Size "June" Powder achieves a **double purpose.**

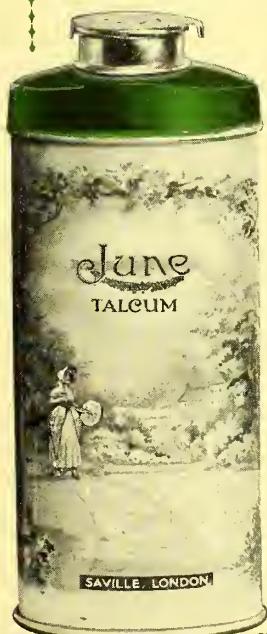
1. It is undoubtedly the most beautiful pack of loose powder yet offered to the Public, and from this point of view its appeal will be universal.
2. It is fitted with an Auto-Filler device for REFILLING THE "ROLA" NON-SPILL BOX.

THE CHEAPEST AND MOST EFFECTIVE
"SIFTER" ON THE MARKET.



No. 32

NEW SIZE "JUNE" POWDER.
RETAIL .. 1/-
PER DOZ. 8/-



No. 43a
NEW
9d. SIZE
TALCUM

In tall slender tin, designed to emphasise those floral characteristics which have always been an admired feature of "JUNE" productions.

RETAIL 9d.
PER DOZ. 6/-

No. 66.

COMPLETE POWDER OUTFIT.
ROLA BOX AND REFILL,
in Dainty Combination Box.

RETAIL .. 2/3
PER DOZ. 18/-



A BRAND NEW IDEA

"JUNE" Compacts in New
Bakelite Cases in fashionable
colours to match the handbag.

RETAIL 1/-. PER DOZ. 8/-

SAVILLE PERFUMERY Ltd.
Watford, Herts.

Saville's

JUVE COFFRETS

YEAR
AFTER
YEAR
Juve COFFRETS
APPEAL TO AN
EVER WIDENING
CIRCLE OF
ENTHUSIASTIC
ADMIRERS.

No. 104 (Size of case 6 $\frac{5}{8}$ " x 6")

CONTENTS

- 1/3 Perfume
- 9d. Talcum
- 6d. Soap

RETAIL, EACH 2/6. PER DOZ. 20/-



No. 108

(Silk lined)

(Size of case 3 $\frac{1}{2}$ " x 6")

CONTENTS

- 2/6 Perfume
- 2/6 Slide Compact

RETAIL, EACH 6/-
PER DOZ. 40/-No. 107 (Size of case 2 $\frac{3}{4}$ " x 6")

CONTENTS

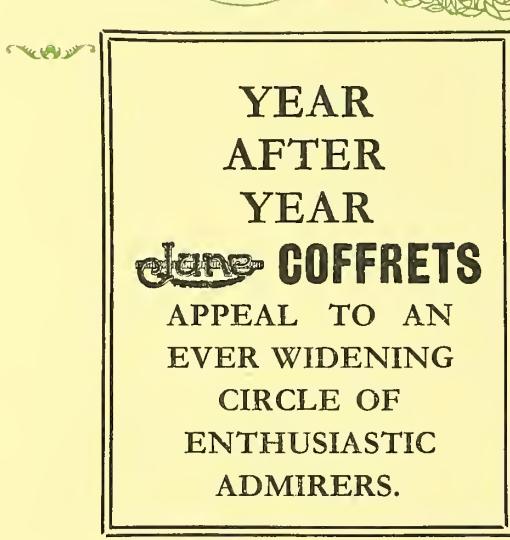
- 2/6 Perfume
- 1/9 Poudre Compact

RETAIL, EACH 4/3. PER DOZ. 34/-

No. 109
(Silk lined)
(Size of case 6 $\frac{1}{4}$ " x 4 $\frac{1}{4}$ ")

CONTENTS

- 4/6 Perfume
- 2/6 Slide Compact

RETAIL, EACH 7/-
PER DOZ. 56/-No. 104 (Size of case 6 $\frac{5}{8}$ " x 6")

CONTENTS

- 1/3 Perfume
- 9d. Talcum
- 6d. Soap

RETAIL, EACH 2/6. PER DOZ. 20/-

*Make sure of your supplies by sending your enquiries now.
Orders can be booked for delivery on any forward date.*

THE MOST POPULAR GIFT SETS OF THE XMAS SEASON



No. 101

(Size of case 4 $\frac{1}{4}$ " x 6 $\frac{1}{8}$ ")

CONTENTS

1/3 Perfume
1/- Poudre Compact
9d. Vanishing Cream
6d. Cold Cream
RETAIL, EACH 3/6
PER DOZ. 28/-



No. 103

(Size of case 5 $\frac{1}{4}$ " x 5 $\frac{1}{4}$ ")

CONTENTS

1/3 Perfume
6d. Vanishing Cream
6d. Cold Cream
6d. Beauty Powder
RETAIL, EACH 2/9
PER DOZ. 22/-

No. 100 (Size of case 7 $\frac{1}{8}$ " x 3 $\frac{7}{8}$ ')

CONTENTS

1/3 Beauty Powder "Rola" Box
1/3 Perfume
9d. Vanishing Cream
RETAIL, EACH 3/3 PER DOZ. 26/-



No. 110

(Size of case 6 $\frac{1}{8}$ " x 3 $\frac{7}{8}$ ')

CONTENTS

1/3 Perfume
1/- Poudre Compact
9d. Vanishing Cream
RETAIL, EACH 3/-
PER DOZ. 24/-

No. 106 (Size of case 9 $\frac{1}{2}$ " x 6 $\frac{1}{4}$ ")

CONTENTS : 2/6 Perfume
1/3 Talcum
9d. Vanishing Cream
3 x 2d. Bath Tablets
RETAIL, EACH 5/- PER DOZ. 40/-



No. 102

(Size of case 6 $\frac{1}{8}$ " x 3 $\frac{1}{4}$ ")

CONTENTS

1/3 Perfume
2 x 6d. Soap
RETAIL, EACH 2/3
PER DOZ. 18/-

NOTE.—No charge is made for the exquisite hand made cases, the prices quoted represent the actual value of contents—all popular standard lines of the **Jane** Perfumery Series.

SAVILLE PERFUMERY LIMITED

- WATFORD, Herts.

SAVILLE'S NEW SERIES OF TOILET LUXURIES for MEN



OVAL SHAVING STICK

In Bakelite Case of unique design. The stick is pushed up from the base on a non-returnable plunger.

"Every case its own holder."

RETAIL 1/3.
PER DOZ. 10/-
REFILLS—RETAIL 10d
PER DOZ. 6/8



SAVILLE'S BRILLIANTINE

In handsomely decorated tin of pleasing design.
RETAIL, EACH 1/-. PER DOZ. 8/-



No. 105 A GIFT SET FOR MEN

CONTENTS

1/6 Shaving Cream
1/- Solid Brilliantine
9d. Talcum
1/- Soap

RETAIL, EACH 4/3
PER DOZ... 34/-



SAVILLE PERFUMERY LIMITED
WATFORD, HERTS.

John Dew's
Milk Soap



Get that Milk idea!

JOHN DEW, Ltd. Makers of Fine Soaps. 180 New Bond Street, London, W.1

ORIGINATORS OF THE MILK SOAP
The Signature is your Guarantee



SPECIAL TERMS for 14 days' WINDOW DISPLAY

● **PARCEL A.**

FOUR GUINEA CONSIGNMENT

| | |
|-------------------------------------|---------------|
| 4 doz. Boxes (144 Tablets) | £4 16 0 |
| Less 10% (WINDOW DISPLAY ALLOWANCE) | 9 7 |
| Less 2½% (30 days) | 4 6 5 |
| 2 2 | |
| COST | NET |
| | £4 4 3 |
| SELLS AT (1/- per TABLET) | £7 4 0 |
| | P.A.T.A. |

● **PARCEL B.**

TWO GUINEA CONSIGNMENT

| | |
|-------------------------------------|----------------|
| 2 doz. Boxes (72 Tablets) | £2 8 0 |
| Less 10% (WINDOW DISPLAY ALLOWANCE) | 4 9 |
| Less 2½% (30 days) | 2 3 3 |
| 2 1 1 | |
| COST | NET |
| | £2 2 2 |
| SELLS AT (1/- per TABLET) | £3 12 0 |
| | P.A.T.A. |

PROFIT ON OUTLAY 71%

ALL ORDERS CARRIAGE PAID

*Showcards, Counter aids
and window dressing gratis.*



TO INTRODUCE

John Dew's
Milk Soap

JOHN DEW'S is a pure luxurious soap appealing to your exclusive clientele. Every detail in production and presentation has been studied to make the soap and its packing—unique—distinctive—quality.

If you have not yet had a sample tablet
we shall be pleased to send you one.

POST YOUR ORDER NOW and make sure of this Exceptional Offer



JOHN DEW, LTD.

Makers of Fine Soaps

180 New Bond Street
LONDON, W.1.

Telephone: REGENT 1946 and 2042

SELL AT
1/- EACH

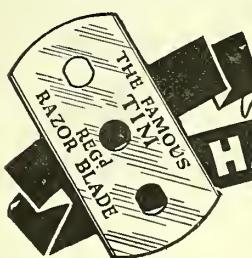


TI
M
A
BRITISH BLADE **4'9**
at a competitive price! **PER CROSS**

... that is meeting with great public favour. The Finest Steel, scientifically Hand-Honed. Send for sample to-day!

Dept. C.D., S.KALISKY (Aldgate) Ltd.

146 THEOBALD'S ROAD,
LONDON, W.C.1,
and at 16 WITHY GROVE,
MANCHESTER.



HAND-HONED
BLADES

WHEN YOU VISIT LONDON
stay at the

CORA HOTEL

Upper Woburn Pl., W.C.1

Accommodation for 240 Guests
Near Euston, St. Pancras and Kings X.

**CENTRAL CONVENIENT
COMFORTABLE**

Magnificent Palm Lounge and Winter
Garden. Talented Orchestra
H. and C. Running Water Basins in all
rooms. Bedlights. Modern conveniences

ROOM and TABLE d'HOT E

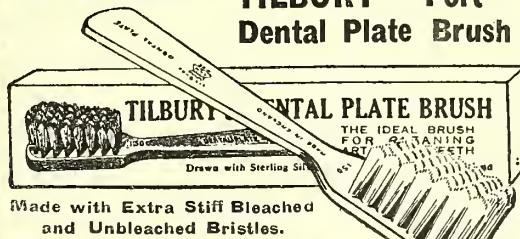
BREAKFAST 8/6



BOARD TERMS, applicable to a stay of 3 days or
more: Partial 11/- per day. Full Board 13/-

Established 1880.

TILBURY "Fort"
Dental Plate Brush



Made with Extra Stiff Bleached
and Unbleached Bristles.

W. R. TILBURY & SON

47 FRAMPTON PARK ROAD, HACKNEY,
LONDON

AMAMI
gets there
again!

with NEW
SIXPENNY
WAVE SET.

The demand for the new Amami 6d. Wave Set is being stimulated by a National Advertising Campaign... and sales are already soaring! By the way—how are YOUR stocks?

TRADE TERMS

48/- per gross, less
10% on 27/- minimum
Assorted Parcel.

Retailing
at
6d.

Order now from your
wholesaler or direct from
the manufacturers:—

PRICHARD & CONSTANCE (MFG.), LTD., 11, BROAD ST., W.C.2



EUCRYL DENTIFRICES

Established 1900

**BRITISH
OWNED**



EUCRYL TOOTH POWDER
EUCRYL TOOTH PASTE
EUCRYL DENTURE POWDER

Bought on Display Terms Yield:

PROFIT ON SELLING PRICE 43%

PROFIT ON BUYING PRICE 75%

Nationally Advertised. Ask us for Showcards.

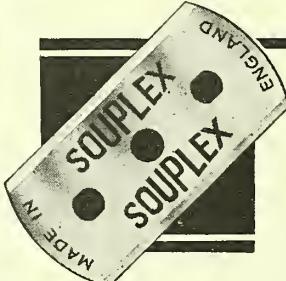
EUCRYL LIMITED
MANUFACTURING CHEMISTS
SOUTHAMPTON

**BRITISH
MADE**




THE
WARDONA
"NEW EDGE"
RAZOR!
A shaving miracle with enormous saies! Send now for trade terms for the Wardon'a "New Edge" Razor and Blades. Both scientifically right

Patent No. 296,597.
Every Razor and Blade Guaranteed.
Sole Makers:
Thomas Ward & Sons, Ltd., and soundly-established Wardon'a Works, lines at a generous profit.
Sheffield - - England


**BIGGER
PROFITS**
WHEN YOU SELL
SOUPLEX
6 for 1/-
92% Profit

Order through usual wholesaler or direct from SOUPLEX LTD., Morecambe

**IT WILL PAY YOU TO
BUY "OCEAN" BLADES**
NO BETTER BRITISH-MADE BLADE ON THE MARKET

**8/- PER
GROSS**
125% PROFIT
SAMPLES FREE
to genuine enquirers
Scientifically made of first quality Steel, in our own British factory. The Blade that builds permanent custom, Millions in use. Handsome profit and no risk. Attractive Showcards. Stocked by leading wholesalers. If any difficulty, write direct, enclosing cheque or P.O. to:-

OCEAN BLADES (Gt. Britain), LTD.
Sales Dept., 1-8 Bridgewater Place, London, E.C.1. Clerk. 6257
Blades made under Customers' Own Name. State quantity.

TWELVE for 1/6
POST FREE
3-HOLE PATTERN



CONQUEROR BLADES 5/6 GROSS
Retail 12 for 1/-
The finest and swiftest selling penny blade on the market. Made of the best Silver Steel. Free Samples on request.

G. B. KENT & SONS, LTD.
Are known the World over as the Largest Manufacturers of
**BEST
BRITISH
RUSHES**

Please write for full Particulars to:
75 FARRINGDON ROAD, E.C.1

PAPIER POUDRÉ NAIL POLISH

Show this attractive advertised line on your counter and in your window. It sells well everywhere

4/- per dozen in attractive show outer. 6 doz. 7½%. 12 doz. 10%
From all Wholesalers, or direct from:
PAPIER POUDRÉ LTD. - - - 46 BAKER STREET, LONDON, W.1.

*No need to buy
abroad!*

We can supply all your

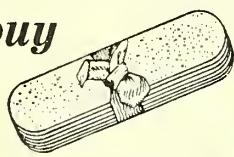
MANICURE GOODS

At Prices which meet Foreign Competition

Wholesale Houses only supplied.

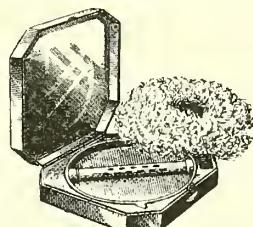
ROBERT LEE, 14 Calverley Grove,
Phone: Archway 2144.

N.19



PLASSARD SIFTER BOX for loose POWDER

With and without ROUGE. The Very LATEST and BEST. SURPASSES ALL OTHERS. POINTS OF SUPERIORITY: Swansdown Puff, Rouge Sieve Pad, Unbreakable Mirror— 6/6 size Single 54/- doz. 8/6,, with Rouge 72/-,, Simple watch movement—The POWDER is easily refilled by 10/6,, Enamelled 84/-,, lifting up the centre tray—No Powder can possibly be spilt—No waste—The Powder sifts in the centre only.



SILK'S TOILET Co., 8 & 9 Red Lion St., London, W.C.1

TAYLOR'S CIMOLITE TOILET POWDER THE PERFECT POWDER FOR NURSERY USE



A perfectly bland and non-irritating Powder. Invaluable in all cases of Excoriations, Chafing, Roughness of the Skin, etc. Recommended by eminent skin doctors and recognised as the leading Toilet Powder for over 70 years by the nursing profession. Used in the Royal Households.

In deference to the many requests received from users of "CIMOLITE," a sprinkler tin to retail at 1½ is now available. This new packing is in addition to the familiar 1½ packet which is still on the market.

When ordering please specify TINS or PACKETS. "CIMOLITE," in all sizes, also CIMOLITE SOAP & CREAM, is stocked by all Wholesale Chemists and Druggists.

TERMS and ILLUSTRATED PRICE LISTS, also ATTRACTIVE SHOWCARDS, Counter Bills and other selling literature, obtainable from JOHN TAYLOR, 30 Baker Street, Portman Square, LONDON, W.1.

OVER
FIVE THOUSAND DENTISTS

are now using, and recommending their patients to use

ORALITE DENTURE SOAP

The most effective cleanser and steriliser known for NATURAL TEETH, ARTIFICIAL TEETH — and the GUMS —

We are shortly commencing a National Advertising Campaign, so be prepared and write for particulars of our attractive first order terms.

THE ORALITE CO., LTD., THORNTON, Blackpool, Lancs.

RETAILLED
AT

6.
D.

IN SPRINKLERS

RETAILLED
AT

6.
D.

IN CARTONS

MARCHERS

OXYGENATED

FOOT BATH SALTS

— AND — (in Cartons)

FOOT DUSTING POWDER

(in Sprinklers)

You can confidently recommend these to your customers, it will ensure satisfaction and bring rapid repeats.

We will send Carr. Paid with 3-Colour Show Matter.

1 Doz. Assorted for 4/3; 3 Doz. for 12/-

A NATIONAL CHEMICAL HOLDINGS PREPARATION.

SOLE DISTRIBUTORS:—

C. L. SHARD & Co., Ltd.,
212/214 Gt. Portland Street, London, W.1

Best sellers
The public is asking for **ZEAL CLINICAL THERMOMETERS**

because they are:-

GUARANTEED TO STAY ACCURATE CONSISTENTLY ADVERTISED

Made by

ZEAL

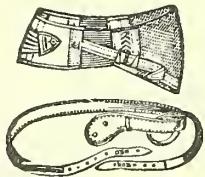
-the name the public knows.

G. H. ZEAL, LTD.,
75 & 77, St. John St., London, E.C.1.



J. H. HAYWOOD, Ltd.

Established 1833



SPECIALITIES FOR WINTER.

ELASTIC HOSIERY (Seamed and Seamless), TRUSSES (Spring and Elastic), SUSPENSORY BANDAGES, BRACES, LADIES' AND GENT'S ABDOMINAL BELTS for support and warmth, made in felt, flannel and fleecy.

CHEST PROTECTORS, SLEEPING SOCKS, INDIA-RUBBER AND AIR-PROOF GOODS, NURSING REQUISITES, DRUGGISTS' SUNDRIES, &c.



PRICES ON APPLICATION

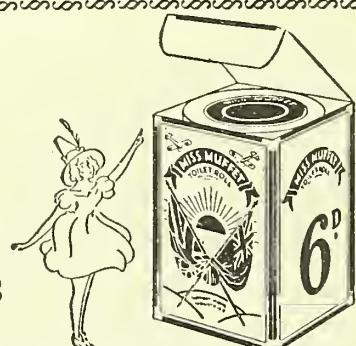
Your Wholesaler Can Supply

**MISS MUFFET
TOILET ROLLS**

675-700 Sheets of 100% Pure White Paper. Free from advertisement (printing ink is dangerous). Neatly reeled—well perforated—packed in dust-proof cartons.

IN CARTONS

THE MISS MUFFET TOILET PAPER CO., West Bridgford, Nott'm.



British Made

HOT WATER BOTTLES

Hand Moulded

ALL RUBBER WITH VULCANITE STOPPERS

FROM **20/-** Per Dozen

Quantity reductions on application
Send for illustrated list.

ARTHUR BERTON, Ltd.

"BRITANNIA HOUSE"

256-260 OLD STREET, LONDON, E.C.1

'Phone: Clerkenwell 1346-7-8-9

'Grams: Aybelin, Finsquare, London

MANCHESTER:
36 Chapel Street
'Phone: Blackfriars 4536

GLASGOW:
29-31 Duke St.
'Phone: Bell 702

Queen Anne
WINDOW DISPLAY
CONTEST

CLOSING
SEPT. 30.

It will
Pay You
to Display
Queen Anne
LAVENDER
WATER

DON'T
BE
TOO
LATE

Send in Your Photo TO-DAY

Marlborough & Co. Ltd.
491-493 Liverpool Road
London, N.7

LA REINE DES CRÈMES

J. LESQUENDIEU
THE WORLD-REKNOWNED FACE CREAM
NATIONALLY ADVERTISED

| LA REINE DES CRÈMES..... | Hand-Bag Tubes | Wholesale 4/- per doz. | Retail 6d. |
|---------------------------|------------------|------------------------|------------|
| LA REINE DES CRÈMES..... | No. 1 Tubes..... | 10- | 1/3 |
| LA REINE DES CRÈMES..... | No. 2 Tubes..... | 16- | 2/0 |
| LA REINE DES CRÈMES..... | No. 1 Pots | 14- | 1/9 |
| *LA REINE DES CRÈMES..... | No. 2 Pots | 20- | 2/6 |
| LA REINE DES CRÈMES..... | No. 3 Pots | 36- | 4/6 |

*GIFT OFFER

*A SPECIAL GIFT is about to be advertised in the National Press and popular publications commencing OCTOBER 15. For every pot of LA REINE DES CRÈMES No. 2 (2/6 size) we are giving a generous free sample of the famous LA REINE DES CREMES FACE POWDER. Every customer who buys a 2/6 pot of LA REINE DES CRÈMES will be entitled to this gift. Your customers will ask for it.

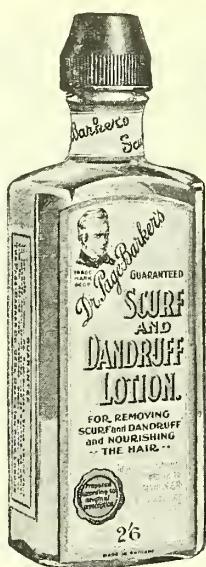
BE PREPARED

INSIST ON BEING SUPPLIED WITH A BOX OF LA REINE DES CRÈMES FACE POWDER WITH EVERY 2/6 POT YOU ORDER. (This must be passed on to the customer.)

SAMPLE TUBES for FREE distribution as advertised supplied direct to the Trade only through Sole Agents :

CALMON & NEATE, LTD.
8 GERRARD STREET, LONDON, W. I.

PHONE
GERRARD 3972



D'r Page-Barker's SCURF & LOTION

2/6

The Guaranteed Specific for SCURF

Dr. PAGE-BARKER'S LOTION is known throughout the Trade as the one reliable specific for Scurf and Dandruff—which can be absolutely depended on and which can therefore be sold with every confidence. No matter how bad the case may be, *Page-Barker's will not fail.* A cast-iron guarantee with every bottle—that it will eradicate Scurf or the purchase price will be refunded without question. Shows you 80 per cent. profit on outlay.

PER 18/- DOZEN

*Note the Improved
Screw Cap!*

With every order for 3 dozen you get three
2/6 bottles as bonus and attractive showcards

SHOWCARDS WITH EVERY ORDER. WRITE FOR EXPORT TERMS.

THOS. CHRISTY & CO., 4-12 OLD SWAN LANE, LONDON, E.C.4

MUST BE SOLD

Mahogany Open Fittings, Wood and Glass top Counters. Dismantled from High-Class West-End Stores. Must be cleared. Exceptional Bargains. Thoroughly overhauled and repolished. Excellent condition. Offered subject to being unsold. Prices and particulars on application. Let us know your requirements.

Pollards
DISMANTLED EQUIPMENT DEPARTMENT
29 CLERKENWELL ROAD, E.C.1
'Phone - - - CLERKENWELL 6700 (Ext. 70)

PHARMACY FITTINGS

We are actual Manufacturers of all Fittings and showcases for the

MODERN PHARMACY

AT COMPETITIVE PRICES

COMPLETE SET OF FITTINGS

£60

IN SOLID OAK OR MAHOGANY

Send NOW for Illustrated List. Your
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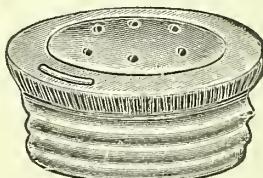
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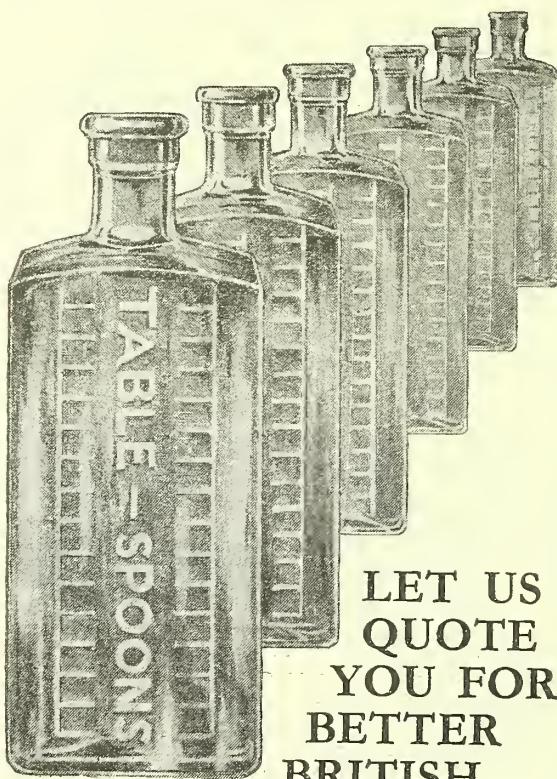
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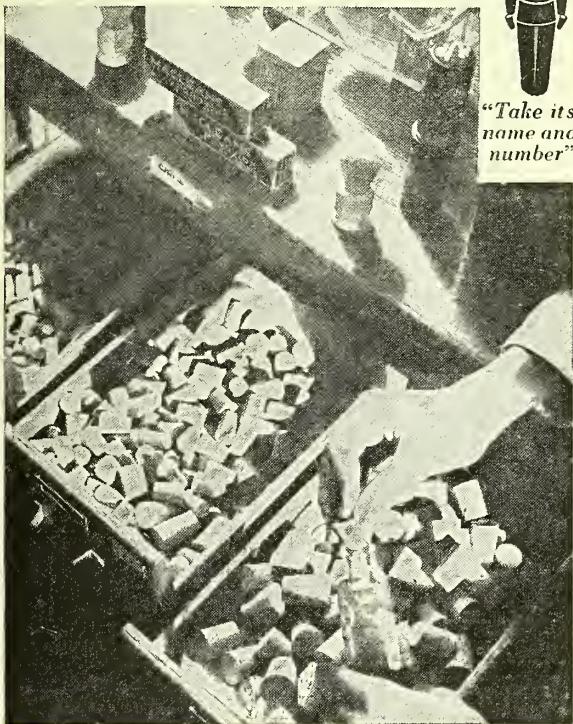
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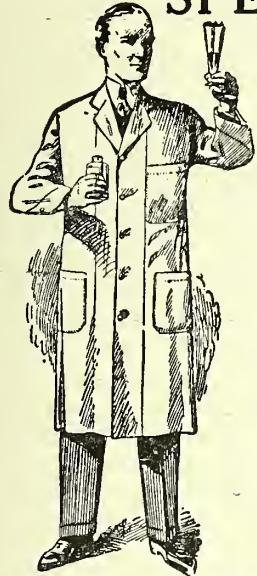
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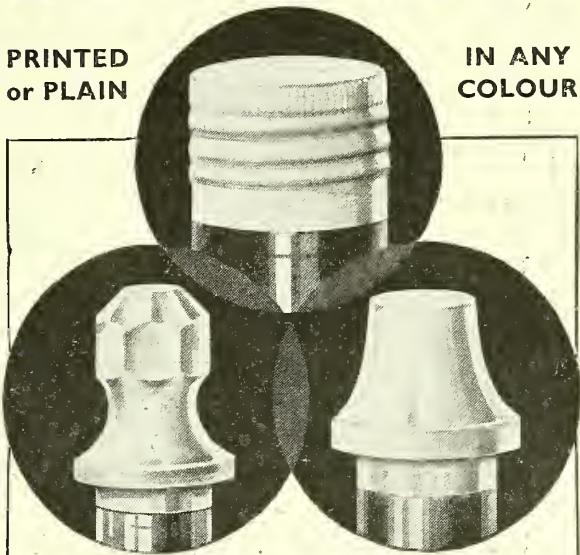
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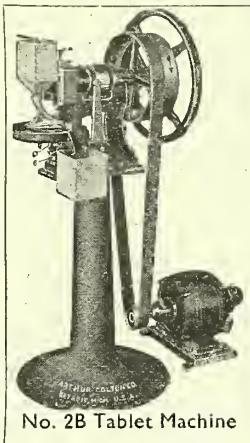
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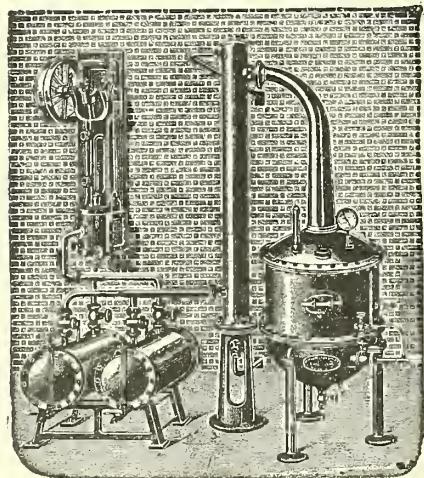
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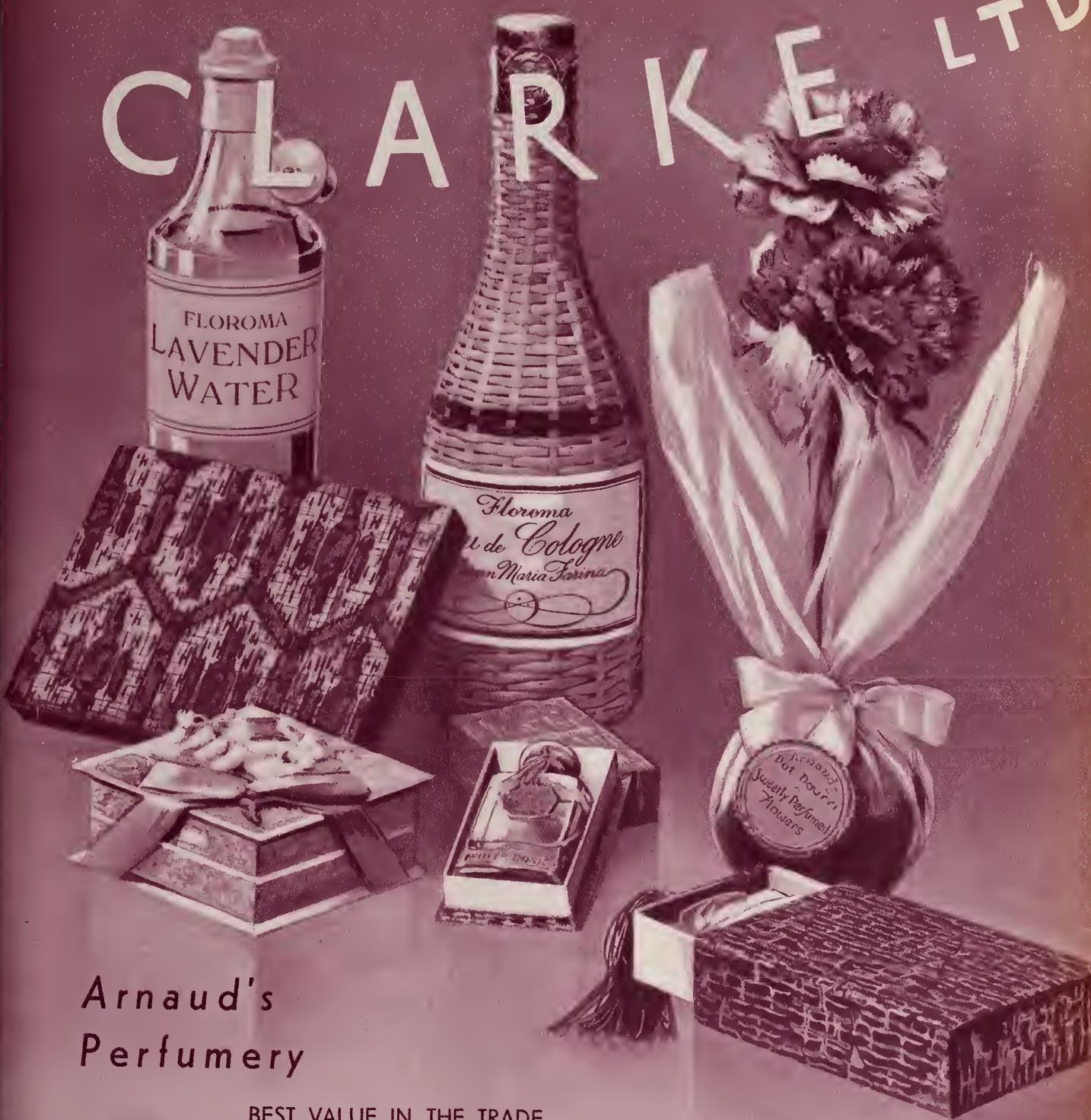
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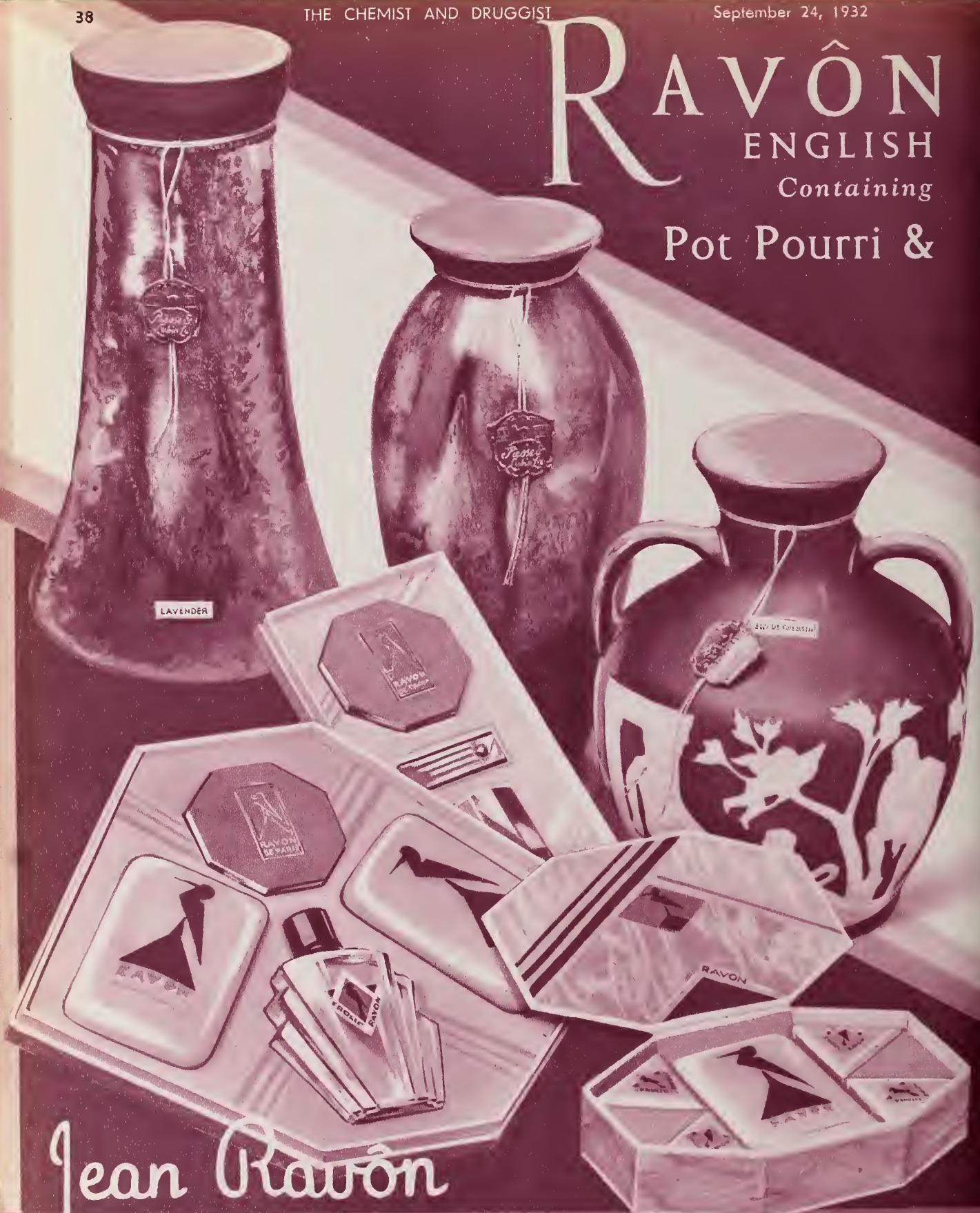
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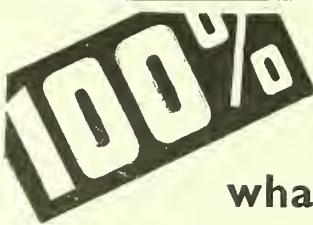
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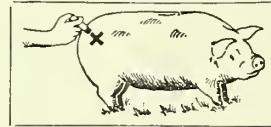
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|--------------------|---------|-------------|----|---|---|-----|---|---|
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| ½ doz. | " | 1½d. MEDIUM | 13 | 6 | 4 | 6 | 6 | 0 |
| ½ doz. | " | 2d. LARGE | 18 | 0 | 3 | 0 | 4 | 0 |

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| | | | | | | | | |
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| ½ doz. | " 1/3 MEDIUM | " | 11 | 0 | 3 | 8 | 5 | 0 |
| ½ doz. | " 6d. MEDIUM | " | 4 | 6 | 2 | 3 | 3 | 0 |
| ½ doz. | " 1/6 LARGE | " | 13 | 6 | 4 | 6 | 6 | 0 |
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| ½ doz. | 6d. | " 0. | .. | 4 | 6 | 1 | 1½ | 1 | 6 |
| ½ doz. | " 1/2 | " 1. | .. | 10 | 4 | 2 | 7 | 3 | 6 |
| ½ doz. | 6d. | " 1. | .. | 4 | 6 | 2 | 3 | 3 | 0 |
| ½ doz. | " 1/6 | " 2. | .. | 13 | 6 | 3 | 4½ | 4 | 6 |
| ½ doz. | 6d. | " 2. | .. | 4 | 6 | 2 | 3 | 3 | 0 |
| ½ doz. | " 2/- | " 3. | .. | 17 | 7 | 2 | 11 | 4 | 0 |
| ½ doz. | " 2/3 | " 4. | .. | 19 | 9 | 1 | 8 | 2 | 3 |
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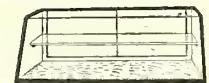
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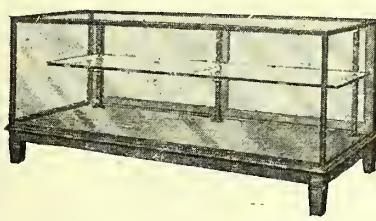
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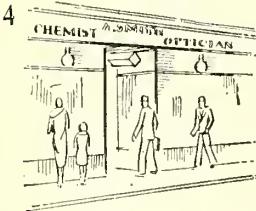
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PURE DE-BITTERED
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before Nov. 30th, 1932

CLOSING DATE

Oct. 31st, 1932

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The display cards should be accompanied with a fairly liberal supply of the goods and occupy a position in the front of the window for 14 days.

This is all you are asked to do. The half-guinea will be remitted when you advise us that the display is in operation. **A postcard is enclosed in all display sets for this purpose.**

This offer is limited to
ONE BONUS PER CUSTOMER



Reproduction of one of the new season's showcards. Printed in full colour, the cards are suitable for both Window and Counter use. FREE with Bonus Order

**1932
CASH
BONUS
ORDER
FORM**

BONUS ORDER FORM

Date

To Messrs. WILLIAM R. WARNER & Co. Ltd. (Sole Distributors of Sloan's Liniment)
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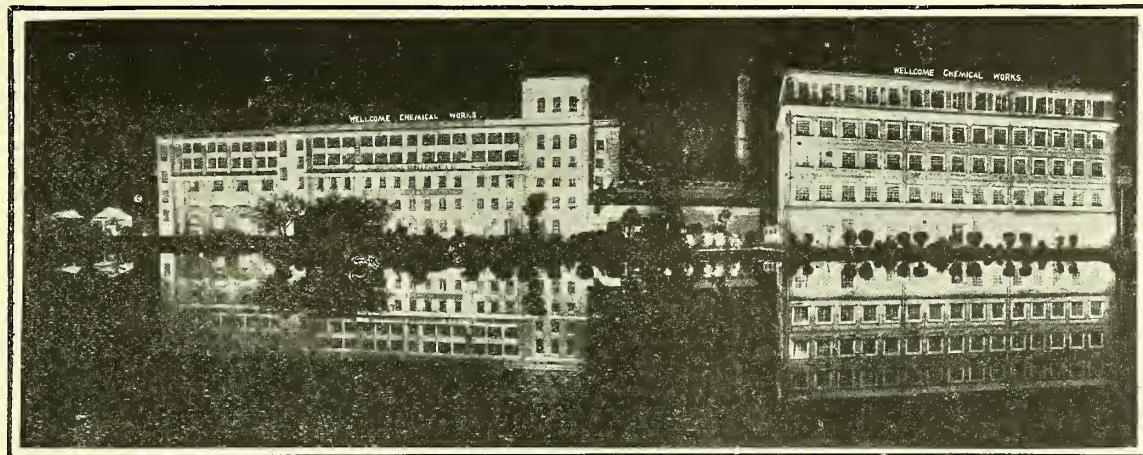
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| 2/- size (one original case) | at 19/- per doz. for 6 doz. lots. |
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"MILK OF MAGNESIA"

AND

"DANDERINE"

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After more than 40 years, Benger's maintains its place as the pre-eminent Food in all cases of digestive disorder.

Show Material from—
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Py-shan Points has a natural balanced proportion of tannin and caffein so it will not cause indigestion.

Py-shan Points brings custom to you that would otherwise go to another trade, therefore giving you **extra turnover**.

Py-shan Points goes one third further than whole leaf teas.

Py-shan Points is not medicated.

Stock and display Py-shan Points Tea and increase your turnover.

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 4/12 Old Swan Lane, London, E.C.4

Chemists 2/7 per lb.

,, 2/5 C.W.O.

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A Weekly Journal of Pharmacy, the Drug, Chemical and Allied Trades

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VOL. 117. NO. 2746

CONTENTS

SEPTEMBER 24, 1932

| PAGE | PAGE | PAGE |
|---|--|------------------------------------|
| Association Meetings 379 | Deaths 391 | Essential Oils 396 |
| Births 391 | Editorial Article:— The Conference and After 393 | Materia Medica .. 397 |
| BRITISH PHARMACEU- TICAL CONFERENCE— Science Section 366 | Glasgow Exhibition 363 | Medicine 397 |
| Closing Session 371 | Information Depart- ment 392 | Optics 398 |
| Social Echoes 374 | Irish Notes 361 | Pharmacology 398 |
| Who Were There .. 378 | Legal Reports 362 | Photography 399 |
| Business Changes .. 391 | Marriages 391 | Veterinary Medi- cine 399 |
| CHRISTMAS PERFUMERY 380 | New Companies and Company News ... 362 | Retrospect 406 |
| Coming Events 361 | News of the Week . 359 | Scottish Notes 361 |
| Correspondence:— Letters 405 | Personalities 391 | Sporting Events 361 |
| Miscellaneous In- quiries 406 | | Topical Reflections . 365 |

News of the Week

Key Industries—Exemption Orders

The question of the renewal of the Safeguarding of Industries (Exemption) No. 5 Order, 1931, and No. 6 Order, 1931, made under Section 10 (5) of the Finance Act, 1926, is now under consideration by the Board of Trade. The articles covered by these Orders which exempt them from duty until December 31, 1932, are:—

Acid adipinie; acid isobutyl allyl barbituric; acid oxalic; acid propionic; amidopyrin (pyramidon); dimethylamido-antipyrine; ammonium perchlorate; barbitone (veronal); malonal; malourea; acid diethyl barbituric; diethyl-malonylurea; hypnogen; deba); bromural (dormigene); butyl methyl adipate; calcium gluconate (calcium glyconate); celtium oxide; chinoline (quinoline); chinosol; cocaine, crude; dial (acid diallyl barbituric); dicyandiamide; didial (ethyl morphine diallyl barbiturate); dimethyl sulphate; diphenyl; diphenyl oxide; dysprosium oxide; elbon (cinnamyl para oxyphenyl urea); erbium oxide; ethyl abietate; ethylene bromide; eukodal; europium oxide; furfural; gadolinium oxide; germanium oxide; glycol ethers; guaiacol carbonate (duotol); holmium oxide; hydroquinone; integrators (planimeter type); R. lead acetate; lead tetrathyl; lipoiodin; lutecium oxide; mercury vapour rectifiers having mercury cathodes; metaldehyde; methyl cyclohexanol methyl adipate; methyl sulphonate (diethylsulphonemethylmethylethylmethane; trional); methylene chloride; neodymium oxide; nickel hydroxide; oxymethyl paraoxyphenyl benzylamine methyl sulphate; papaverine; phenacetin (acetparaphenetidine); phenazone; (antipyrine); phenyl dimethylpyrazolone; analgesin; anodynine; dimethyl oxychinizin); phenetidine, paraphloroglucine; photogravure screens (both rulings on one plate) exceeding 40 inches in length; phytin; piperazine (diethylene-diamine; dispermin); planimeters; R. potassium chlorate; potassium ethylxanthogenate (potassium xanthogenate); potassium guaiacol sulphonate (thiocol); R. potassium hydroxide (R. potassium caustic; R. potassium hydrate); R. potassium permanganate; praseodymium

oxide; pyramidon-veronal; quinine ethyl-carbonate; radium compounds; resorcin (resorcinol); salol (phenyl salicylate); samarium oxide; scandium compounds; sodium ethyl methyl butyl barbiturate; strontium carbonate; strontium nitrate; styracol (guaiacol cinnamate); sulphonol; synthaline; terbium oxide, thulium oxide; urea (carbamide); vanadium-silica compounds specially prepared for use as catalysts for sulphuric acid manufacture; ytterbium oxide, yttrium oxide.

Section 10 (5) of the Finance Act, 1926, is as follows:—

"The Treasury may by order exempt from the duty imposed by section one of the Safeguarding of Industries Act, 1921, as amended by this Act, for such period as may be specified in the order, any article in respect of which the Board of Trade are satisfied on a representation made by a consumer of that article that the article is not made in any part of His Majesty's Dominions in quantities which are substantial having regard to the consumption of that article for the time being in the United Kingdom, and that there is no reasonable probability that the article will within a reasonable period be made in His Majesty's Dominions in such substantial quantities."

Any communication should be addressed to the Principal Assistant Secretary, Industries and Manufactures Department, Board of Trade, Great George Street, S.W.1, on or before October 13, 1932.

Grocers' Exhibition

The thirty-sixth International Exhibition and Market of the Grocery, Provision, Oil and Italian Warehousemen and Allied Traders was opened at the Royal Agricultural Hall, London, N.1, on September 17. The exhibits are on the usual lines, and great interest is again manifest in the various competitions. The area occupied by the stand of the Empire Marketing Board

is devoted to displays of home and overseas Empire produce. ARMOUR & CO., LTD., show extract of beef and other products; COW AND GATE, LTD., display a range of dairy products; FAIRY DYES, LTD., have an ingenious display which attracts considerable attention; WM. GARDNER & SONS (GLOUCESTER), LTD., show grinding and sifting machinery; THE NATIONAL CASH REGISTER CO., LTD., exhibit a range of cash registers; cartons and boxes are shown by ROBINSON & SONS, LTD. Other exhibits of interest to the drug trade include those of W. & T. AVERY, LTD. (weighing machines); BURROUGHS ADDING MACHINE, LTD.; SAMUEL JONES & CO., LTD. (sealing machines); OXO, LTD.; PARNALL & SONS, LTD. (shop equipment); SOZOL (1924), LTD. (Oteg egg preservative).

Hairdressing Fashion Fair

Although this year's Hairdressing Fashion Fair, opened at Olympia, London, W.14, by Lady Neville Pearson on September 20, appeals primarily to ladies who desire to sit for an indefinite time with an indefinite number of metal appliances lodged in their hair, braving the titters of the spectators, chemists in search of smart toilet goods effectively displayed might do worse than walk through this exhibition, the entrance to which is from the Hammersmith Road. Among well-known houses represented are ARRIDGE, LANGMEAD & CO., LTD. (Harvest Moon and Alco series); J. & E. ATKINSON, LTD.; BACTEROL, LTD.; BRITISH-AMERICAN SAFETY RAZOR CO., LTD.; E. N. BROMAGE & CO.; THE BUTYWAVE CO.; CALMON & NEATE, LTD. (La Reine des Crèmes, for which a gift offer is pending); THOMAS CHRISTY & CO.; COTY (ENGLAND), LTD.; THE COUNTY PERFUMERY CO.; DEBACQ & HARROP; JOHN DEW, LTD.; DHAUSSY POWDER BOX CO., LTD.; DIXOR, LTD.; ROBERT DOUGLAS (BOND STREET), LTD.; THE DUBARRY PERFUMERY CO., LTD.; EMAIL-DIAMANT (sole U.K. agent, A. H. Dufresnoy); J. C. GAMBLE & CO., LTD.; GILLETTE INDUSTRIES, LTD.; HINDES, LTD.; THE ILEX SUPPLY CO., LTD.; IVA MANUFACTURING CO. (fur puffs); KERKA PERMANENT WAVING, LTD.; THE KRASKA CO., LTD.; L. LEICHNER (LONDON), LTD.; LITTO LABORATORIES; PAPIER POUDRÉ, LTD.; PARFUMERIE DE PARIS, LTD.; PERMANTO PRODUCTS, LTD.; PHILLIPS' PATENTS, LTD. (whose advertisement of Permenda, for holes in stockings, appears in this issue); MRS. POMEROY, LTD.; POTTER & MOORE, LTD.; PREEMO CO.; PREEMO BRUSHES, LTD.; PRICHARD & CONSTANCE (MANUFACTURING), LTD.; CHARLES ROGER LABORATORIES, LTD.; RONSON PRODUCTS, LTD.; THE SCHOLL MANUFACTURING CO., LTD.; STEWART, GOODALL & DUNLOP, LTD.; C. A. STOKES & CO., LTD.; WALDEN, WALDEN & CO.; JEAN WARING, LTD.; YARDLEY & CO., LTD.

Liverpool

Special evening courses in chemistry, physics and applied optics have been arranged by the Liverpool Education Committee, and will be given during the winter months. A syllabus has been prepared giving details.

A prominent member of the Port Sunlight staff was recently in one of the best Liverpool cafés, and overheard a lady ask the waitress for an ice. The waitress inquired whether she preferred strawberry, vanilla or some other kind; the reply was "Vinolia, please."

Manchester

The pharmacists of Manchester and the district are to be favoured with an opportunity of seeing some of the preparations of the new British Pharmacopœia on September 29, when through the kindness of Mr. J. H. Franklin a number of specimens will be on view from 7.30 to 8.30 p.m., an hour before the announced meeting of the Manchester Pharmaceutical Association commences.

The syllabus for the coming session of the combined bodies of the Manchester Pharmaceutical Association and the Manchester, Salford and District Branch of the Pharmaceutical Society is one of the most comprehen-

sive that has ever been issued, the many activities of these bodies having been added to by the formation of the Junior Branch of the Association. The Junior Branch has secured accommodation at the Victoria Hotel (in the centre of the city), where any member can go every Wednesday afternoon and evening during the session, which extends from September 29, 1932, to April 12, 1933. The first function organised by the Junior Branch is a dance on October 5. This will be held at the Piccadilly Cinema Dance Salon. Trophies and cups will be presented to the winners during the evening.

Miscellaneous

SHOPPING WEEK.—Camberne is holding an Empire shopping week on October 8-15.

POISON-LICENCE APPLICATION.—The Vale of Aeron Agricultural Society, Ltd., Felinfach, have applied to the Cardiganshire County Council for a licence to sell agricultural poisons.

FIRE.—There was an outbreak of fire, on September 16, at the premises of The "Sanitas" Co., Ltd., Locksley Street, London, E., due to an unknown cause. A district call was circulated to the Fire Brigade.

IN THE COURTS.—At Bow Street Police Court, London, on September 14, Douglas Denny (25), engineer, was sentenced to six months' hard labour for being in unlawful possession of tablets of cocaine hydrochloride and tablets of morphine hydrochloride.—At North London Police Court, on September 17, James H. Greenwood (20), meat porter, Victor Road, N., and George Dowse (21), chef, Hurlock Street, N., were charged with breaking into a chemist's shop at Highbury Park, N. Mr. Donald R. Webb, chemist and druggist, said he locked up his shop and left the premises on the previous evening. Upon his return he found that goods valued at £21 were missing. A remand was ordered.—At Bristol Police Court, on September 20, Harry Davis (21), of no fixed abode, was committed for trial on charges of robbery and wounding. Evidence of a severe struggle with the accused was given by Mr. T. H. Doughty, chemist and druggist, manager to Hodders, Ltd., chemists, at their Whiteladies Road branch.—At Penrith Police Court, on September 20, Boots, Ltd., were ordered to pay 20s. costs for having sold two tins of sheep dip which were not clearly labelled with a statement of the dilutions approved by the Ministry of Agriculture and Fisheries. It was explained that at the time of the sale the manager was on holiday, and a relief manager was in charge.

THEFT CHARGE.—At North London Police Court, on September 14, the hearing was resumed of the charges arising from alleged thefts from the premises of Francis Newbery & Sons, Ltd., wholesale chemists, Charterhouse Square (C. & D., September 10, p. 280). Mr. Claud Hornby appeared for the prosecution, and a fresh charge was made against Riches and Wild. Mr. Hornby said Trotman was employed in the warehouse; Wild was a former employee who had been dismissed; and it was suggested that he received the stolen goods from Trotman and handed them over, or some of them, to the alleged receiver, Riches. On June 30 a stock-taking revealed that there was a deficiency of about £5,600 worth of goods for the year. Later, Mr. W. J. Williams, the managing director, made nightly tours of the stockroom and noticed that certain goods were missing which had not gone out in the ordinary course of business. Mr. W. J. Williams, in evidence, said that he examined the goods which were the subject of the charges, and could positively say that all of them were the property of the company with the exception of certain developers. Mr. Solomon Barlow, Brick Lane, E., said the last transaction he had with Riches was on July 8. So far as he knew, the only occasion which Riches had ever purchased perfume from him was last December. The accused were committed for trial. They pleaded "Not guilty" and reserved their defence. Bail was allowed in the case of Riches.

Irish Notes

Pharmaceutical Society of Ireland

For the Assistants' examination of the Pharmaceutical Society of Ireland, held on July 28 and 29, eighteen candidates presented themselves, of whom seven were rejected. The eleven successful candidates (in alphabetical order) were: Michael Bree, Herbert Draffin, T. J. Gleeson, Ada M. Holmes, Ellen Kieran, Francis McAnena, E. M. Murphy, T. B. O'Sullivan, Patrick J. Redmond, A. F. Roughan and R. P. Walker.

The retirement of seven members of the Council of the Pharmaceutical Society takes place at the end of this month. The annual meeting of the Society will be held on Monday, October 3, at 7.30 p.m., at 67 Lower Mount Street. For the seven vacancies on the Council four new candidates were nominated on September 19 in addition to the seven outgoing members. The newcomers include the first lady chemist to seek election, Miss Fionnuala Mary Flood, M.P.S.I., Terenure Road, Dublin. Mr. Donald W. Parker Boyd, a director of Boileau & Boyd, Ltd., Dublin, Mr. Francis Doyle, and Mr. Francis S. Meagher were also nominated.

Brevities

Mr. E. A. E. Ashe, L.P.S.I., is shortly opening a shop in Berkley Road, Dublin.

A verdict of "Accidental death" was returned at an inquest at Lisnaskcal, co. Fermanagh, on the body of John Gibbons, who drank Sloan's liniment in mistake for medicine.

The Meath County Infirmary Committee has accepted the tender of Mr. W. Finegan, L.P.S.I., Navan, for medicines, and that of Fannin & Co., Dublin, for surgical appliances.

The Sligo Chamber of Commerce and the Sligo Mental Hospital Committee have passed resolutions requesting the Trade Department in Dublin to amend the schedule of prices so that public bodies may be in a position to give preference to Free State manufactured goods.

At Naas District Court, recently, Timothy Prender-ville was charged with having stolen a lamb. The accused said he was a chemist's assistant, but had been out of work since February. He had no food, and his wife and children were suffering from prolonged mal-nutrition. On an undertaking to pay 10s. within a fortnight to the owner of the lamb, he was discharged under the Probation of Offenders Act.

At a recent meeting of the Ballymena Board of Guardians a letter was received from the Ministry of Home Affairs, informing the Guardians that when the Ministry's pharmaceutical inspector visited Ballymena on August 19 and called on Dr. Reid, Ph.C., Mill Street, he found an assistant in charge. Dr. Reid stated that after taking up duty as temporary compounding at the dispensary he was asked to act as locum for a medical friend. Before leaving he installed his manageress, Miss Boyd, Ph.C. He was sure the duties had been efficiently carried out. Mr. Gregg moved that Dr. Reid's explanation be accepted and forwarded to the Ministry. The proposal was adopted.

Belfast

Nominations in connection with the elections to the Council of the Pharmaceutical Society of Northern Ireland closed at noon on September 19, and as six candidates are being put forward for four vacancies, there will be a contest. The result will be declared on October 3. Mr. H. F. Moore has not previously occupied a seat on the Council. The election promises to be a keen one, and is exciting great interest in trade circles.

Parents, friends, employers and members of the public were interested observers of pharmaceutical operations in the Municipal College of Technology on September 16 at the invitation of the principal. The occasion was an "open night." In all departments the students were "carrying on," while the staff acted as guides. In the Pharmacy Laboratory students were engaged in

preparing emulsions, granular preparations, cachets, suppositories, pills, etc.; there was a constant stream of visitors between the benches, and keenly interested groups crowded round to hear the various processes described. The comments passed by the visitors were illuminating, and told of the splendid object-lesson in the "art and mystery of the apothecary" that this demonstration was providing. The thanks of chemists are due to the technical authorities in the Science Department for staging a valuable piece of publicity for pharmacy.

Scottish Notes

Brevities

Two Arab members of a ship's crew recently entered a Scottish pharmacy in a search for aromatics. Speaking English but poorly, they nevertheless displayed exceptional intelligence, and gave the proprietor the Arabic and Italian names for many crude drugs which they saw on the shelves.

"The glut of qualified assistants and consequent unemployment," writes a correspondent, "is having the effect of causing time-expired apprentices to remain with their employers as unqualified assistants. Particularly is this the case with regard to girls, who state that qualification is equivalent to unemployment."

Sporting Events

MEMBERS of the West Glamorgan Pharmacists' Golf Club met at the Swansea Bay Golf Course recently to play for the Evans Lescher & Webb silver challenge cup, which was won by Mr. D. Hyatt Jenkins, Treherbert, with a score of $93-17=76$. The second prize, a dozen golf balls, was won by Mr. Nix, with $84-4=80$. The other best scores included that of the holder, Mr. T. Lewis, $93-12=81$; G. M. Thomas, Pontardawe, $100-17=83$; I. B. Jones, Skewen, $103-18=85$.

THE annual meeting of the Ipswich Chemists' Hockey Club was held on September 13, Mr. S. J. Stearn presiding; he was supported by Mr. F. W. Wiggin (secretary), Mr. L. Piper and Mr. J. C. Wiggin. The secretary presented the financial statement, which showed a balance in hand. The officials elected for the coming year were as follows:—President, Mr. L. Piper; Captain, Mr. S. J. Stearn; Vice-Captain, Mr. E. Hammond; Ladies' Captain, Miss Greenwood; Secretary, Mr. F. W. Wiggin; Committee, Miss Collins, Mr. J. Fenton Bolland and Mr. J. W. G. Butcher. Practice matches have been arranged to take place on the Portman Road ground on the first three Wednesdays in October. The opening match (mixed) will take place at Woodbridge on October 26; players will be welcomed at the practice matches. A dance has been arranged at the British Legion Hall on November 30.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc. occur.

Wednesday, September 28

Pharmaceutical Society of Great Britain, Croydon Branch and Croydon Pharmacists' Association, Café Royal, at 8 p.m. for 8.15 p.m. Informal supper.

Thursday, September 29

Manchester Pharmaceutical Association and Manchester, Salford and District Branch of the Pharmaceutical Society, Victoria Hotel, Deansgate, at 8.30 p.m. Joint meeting. Mr. J. H. Franklin (chairman of the Branch) on "The New Pharmacopœia."

Legal Reports

Merchandise Marks Act, 1887. — At Thames Police Court, London, on September 16, the hearing was resumed of the charges against Alfred Donner, Harry Gritz, Jacob Goldberg, C. S. Ellis and H. Fitzgibbons, who were charged with offences under the Merchandise Marks Act, 1887 (C. & D., September 10, p. 282). Mr. Walter Harris said he was the advertising manager to E. Griffiths Hughes, Ltd., Manchester, the proprietors of Radox bath salts. Radox was registered in 1923. The genuine packets had been printed from type, and the spurious from a photographic reproduction. Michael Petrushkin, printer, Bow Road, E., said that Goldberg ordered 5,000 plain cartons from him, of the same shape as Radox, on May 5, and a further 5,000 on June 3. Charles Mills, printer, Maplin Street, E., said that Goldberg and Writz came to him and said they had been appointed agents to sell Radox, gave him a carton, and said they wanted a block made of the wrapper. He placed the order with Hudson & Robinson, and he was paid by Gritz. Subsequently Goldberg came into the shop and told him to destroy the block, which he did. Dorothy Mann gave evidence as to being employed as a packer. John Meadows, Cambridge Road, E., said that Goldberg called on him in June and quoted 13s. a dozen. He found a Mr. Schneiderman, of the Wholesale Trading Supplies, Newington Causeway, S.E., who bought £38 worth. Sidney Deitsch (Lasfid, Ltd., chemists, Burdett Road, E.) said Donner came to see him, and asked him if he were interested in Radox bath salts. He offered five gross at 10s. 6d., and a further three gross at 10s. 6d. less 1 $\frac{1}{4}$ per cent. He was to get 11s. for it. Donner came with the salts with Goldberg, and he paid Donner £50, less 1s. 6d. change which he got off Goldberg. In cross-examination, the witness said it was a limited company and he was one of the directors. He was not a chemist. Asked by the magistrate what he would have to pay for genuine Radox, he said he would get thirteen to the dozen, and pay 12s. for them, which he considered was about the same as the 10s. 6d. a dozen he paid Donner.

MAGISTRATE'S QUESTIONS

The magistrate said it was obvious the witness was purposely pretending that he could not reckon, as it would be clear to anybody that there was a difference in the price, which would have made any trading person suspect the origin of the supply. In further answers to the magistrate, the witness said he made £2 11s. on the deal, as he sold five gross at 11s. and three gross at 11s., less 1 $\frac{1}{4}$ per cent. He had never bought Radox from anybody else before. It was quite usual to get offers of goods in the same way. Pressed by the magistrate, the witness said he did know there was a fixed price for the wholesale buying and also for the retail. It was not to his knowledge that he was buying below the fixed price. He did not make any inquiries about the matter. The Magistrate: I advise you to be very careful in the future, or you may get yourself into very serious trouble. It is quite obvious that you were sailing very close to the wind in making a purchase like this. D. Elkan, jeweller, Commercial Road, E., said he bought the bath salts from Deitsch. After a time he got a little suspicious, and sent a packet to the proprietors. The Magistrate: How did you as a jeweller come to buy Radox bath salts? There is no reason why a jeweller should not sell what chemists sell. The witness added that he was told by Mr. Deitsch he could not give him a receipt as he would get into serious trouble with his Association, and it was only when he complained seriously that Deitsch gave him the receipt which Donner gave him. Upon this the magistrate asked for Mr. Deitsch to come back into the box, and said, "This receipt is for £52 8s. 10d., whereas you know you only paid Donner £49 18s. 6d. You therefore knew that this was absolutely a false document?" —Yes, I did know it was false. I asked Donner to give it to me so that I could say to Elkan "That is what I had paid." The Magistrate: This is a most dishonest transaction, and shows you up in a very bad light. The case was again adjourned.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office.

J. H. M. LAND (LUTON), LTD. (P.C.). —Capital £250. Objects: To acquire the business of a chemist now carried on by C. P. Turney at 86 Leagrave Road, Luton, as "C. P. Turney."

JAMES C. CAMPBELL, LTD. (P.C.). —Registered in Belfast. Capital £1,000. Objects: To carry on the business of chemists, druggists, patent medicine vendors, etc. R.O.: 46 York Road, Belfast.

J. ERNEST WATSON, LTD. (P.C.). —Capital £500. Objects: To acquire the business of a chemist and druggist carried on by J. E. Watson at 3 and 5 Quarry Road, Tunbridge Wells, as "J. Ernest Watson, M.P.S."

CELLULOSE COMPOSITIONS CO., LTD. (P.C.). —Capital £5,000. Objects: To acquire the business of industrial application of various chemical processes, more particularly for the manufacture of moulded materials from cellulose and allied substances now carried on by E. F. Whybro and H. P. Bayon at Trumpington, Cambs.

ST. GEORGE'S PHARMACY, LTD. (P.C.). —Capital £500. Objects: To carry on the business of manufacturers of and dealers in chemicals, gases, drugs, medicines, disinfectants, toilet requisites, perfumes, etc. R.O.: 7A St. George's Road, S.E.1.

Voluntary Liquidation

County Drug Store, Ltd., 22 Lancaster Road, Preston. —The statutory meeting of the creditors was held recently at Preston, when the statement of affairs showed liabilities of £234 5s. 3d., made up as follows:—Trade creditors, including bankers, £170 11s. 11d.; rent, £10; and rates, £53 13s. 4d. The assets comprised cash in hand, 5s. 3d.; stock on hand, £70 10s. 3d., and shop fixtures, fittings and utensils £130, valued at £58 11s. 6d., making a total of £129 7s. After allowing £47 1s. 4d. for preferential claims, the net assets were £82 5s. 8d., or a deficiency of £151 19s. 7d. The issued share capital was £350, making a deficiency as regarded contributories of £501 19s. 7d. It was reported that the business was a very old-established one, the company being registered in 1896 with a nominal capital of £500. The premises were held at a rental of £56 per annum and rates of £43 per annum. It was stated that losses had been sustained for some time. The shareholders had already met and appointed Mr. R. O. Griffiths as liquidator, and the creditors decided to confirm that appointment. A committee of inspection was also nominated.

Bankruptcy Reports

Re Fred Rawson, 27 Salisbury Avenue, West Kirby, Cheshire, formerly 629 Smithdown Road, Liverpool, Lancs., chemist and druggist. —The first meeting of the creditors was held recently, at the offices of the Official Receiver, Liverpool, when the statement of affairs showed liabilities of £2,752, and no assets. In 1915 the debtor promoted a private company. In 1930 the company went into voluntary liquidation, and the assets were sold by the liquidators, but the debtor did not receive anything as a shareholder. In December 1930 he promoted another private company. The assets of the former company were purchased for £800, of which £100 was provided by himself. The debtor was a director of the company, but did not receive any shares. Early in 1932 the bank appointed a receiver under debentures which it held, but does not appear to have recovered payment. The debtor attributed his position to the failure of the two companies, which terminated his source of income. The matter was left in the hands of the Official Receiver as trustee.

Chemists' Exhibition in Glasgow

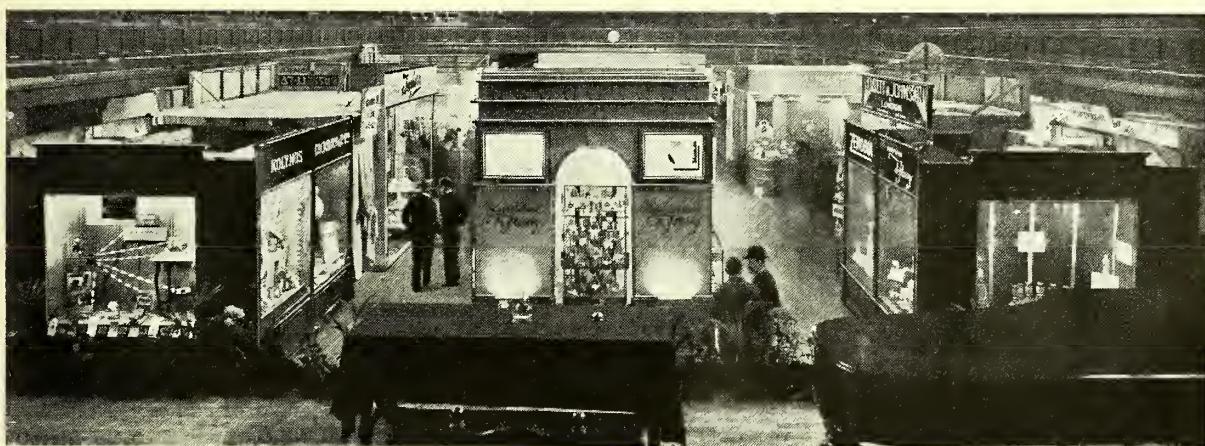
THE fourth triennial Chemists' Exhibition in Scotland was held at St. Andrew's Hall, Glasgow, during the present week. The Exhibition was opened on September 19 by Mr. J. B. McVitae, chairman of the North British Branch of the Pharmaceutical Society, and closes on September 23. Mr. A. C. Merrin, editor of "The British and Colonial Pharmacist," presided at the opening ceremony. Among those present were Messrs. W. J. Beardsley, A. A. Dick, P. M. Duff, G. P. Forrester, T. Guthrie, T. Harley, J. R. Hill, A. McMillan, W. J. Moffett and Arthur Mortimer. Mr. McVitae, in giving a welcome to the visitors and stall-holders, spoke of the enterprise of the promoters in organising an exhibition in these difficult times, and said it would be a great advantage to the drug trade to have some uniform method of pricing prescriptions. Mr. Dick supported the opener. A vote of thanks to the two speakers was proposed and seconded by Mr. Moffett and Mr. Duff respectively.

suffer from that disease. Their Torch brand series was also included in a fine show.

ARMOUR & CO., LTD., showed many of their glandular preparations, including thyroid to meet the requirements of the 1932 B.P. Among the other lines seen were Glanoid calf's foot jelly in many popular flavours.

ARTHUR H. COX, LTD., had a new chemist's series that should prove a big business bringer, namely, the Zim brand series (referred to in the C. & D. of September 17). Another popular line is Marienbad anti-obesity tablets, which any chemist who caters for the modern custom of girth control may with advantage stock. The winter lines of chest and lung jubes and All-Four Cubes were attractively packed. Three Salt Tablets and Kurboil Tablets helped to make a most effective show.

T. F. BRISTOW & CO., LTD., were showing soaps for the chemist, as well as choice perfumes and toilet lines. They had a capital show of dainty goods particularly suited for Christmas gifts.



GENERAL VIEW OF THE CHEMISTS' EXHIBITION IN GLASGOW

At the luncheon which followed, Mr. Thomas Guthrie, member of the Council of the Pharmaceutical Society, proposed "Success to the Exhibition." Mr. Merrin, replying, mentioned that the Exhibition now had the official recognition of the Scottish Pharmaceutical Federation, and that, as on previous occasions, a large number of leading pharmacists in North Britain had become patrons. In proposing the toast of "The Ladies," Mr. Arthur Mortimer, secretary of the Wholesale Drug Trade Association, was in humorous oratorical vein. Mrs. Meldrum, in a brilliant response, said that many women could talk but few could speak. Women were nothing if not venturesome, and they did make good wives for pharmacists. Mr. J. Rutherford Hill, resident secretary in Scotland of the Pharmaceutical Society, proposed the health of Mr. McVitae.

A committee of sixteen ladies, wives and relatives of pharmacists, acted as hostesses during the week. Great interest was taken by visitors from the trade in a competition for money prizes to judge the relative sales-pulling power of ten dressed windows. Among many well-arranged stands those devoted to perfumery stood out in beauty of colour and design. The following are brief notes on some of the principal stands:—

ALLEN & HANBURY'S, LTD., had a supply of their more recent pharmaceutical specialities, such as I-so-gel granules, digitalin granules, dextrin maltose and beef juice. The new lines, Iron and Copper Kapsols and L.Y.H. (liver, yeast and haemoglobin) are both lines which will be ordered by the medical profession. Another line of this progressive house was a series of diabetic foods and other articles required by those who

BURGOYNE, BURBIDGES & CO., LTD., had a full range of everything a pharmacist needs in bulk drugs and chemicals, as well as special lines of pharmaceutical interest. Their packed goods covered a wide range and were of their usual high standard.

W. B. CARTWRIGHT, LTD., had a good show of Moorland brand indigestion tablets and many other lines with a profit-making margin.

COCKBURN & CO., LTD., exhibited the analytical quartz lamp, by means of which many articles can be tested rapidly for their purity, such as eggs, oil of wintergreen, liquid paraffin, etc. They also had a good show of aspirin tablets, and set forth the life story of aspirin from the raw coal to the finished product. Cockburn's pills and the Little Victor inhaler were also prominently displayed.

FASSETT & JOHNSON, LTD., had Angiers Emulsion, California Syrup of Figs, Antikamnia and Bemax well to the fore. They had a full display of all the lines for which they are the agents.

GENATOSAN, LTD., were showing their old favourites Genasprin and Sanatogen, as well as their other preparations, such as tooth-paste, mouth wash, calf lymph and vaccines.

HARKNESS, BEAUMONT & CO., LTD., were quite up to date with a full range of malt preparations containing irradiated ergosterol. The increased demand for such preparations can be met by stocking these goods. Their show material was varied and tasteful.

MR. THOMAS HARLEY was there with his now famous Piper o' Perth rat poison, Rodine. The effectiveness of the show-matter, especially the new moving showcard, was excellent. Bonus terms are offered.

HUNTER BEATTIE showed H.B.T. aseptic preparations. The range included toilet and shaving soaps, skin creams and a "flu" pill.

F. J. C. LAWFORD, the northern agent for Kolynos, Bisodol, Perox and Anadin, had a full show of these preparations with display material.

MACLEANS, LTD., showed their much-advertised specialities, peroxide tooth-paste, dental plate cleaner, stomach powder and tablets. They had new lines and packs in addition.

PARFUMERIE DE FLEURY had a show of great attractiveness. The large range of Christmas gift sets, beginning at modest prices, would suit the purses of all. Such goods add a tone and distinctive appeal to any business. The range includes articles for the toilet in profusion.

PARKE, DAVIS & Co. had an excellent show of their standard lines, such as Euthymol, hydrogen peroxide, Mentholated Bronchial Lozenges, and cod-liver oil emulsion. A new line which is sure to become popular is standardised cod-liver oil with a guaranteed content of vitamins A and D.

W. J. RENDELL, LTD., had an attractive water fountain which drew attention to their proprietary with its fifty years' reputation. The booklets issued by Messrs. Rendell are an aid to business.

A. L. SIMPKIN & Co., LTD., made a special point of glucose barley sugar, which is now being called for extensively. This stick is suitable in all cases where the doctor recommends it. Messrs. Simpkin also had a full range of medicated sweets that will appeal to pharmacists.

T. & H. SMITH, LTD., displayed but three lines from their extensive stock, kaolin poultice, Glyscara and Glycodeine. The names are explicit, and the last-named is a valuable sedative for coughs and is exempt from the D.D.A.

EDWARD TAYLOR, LTD., had a stand which appealed as an ideal first-aid show. Plasters and dressings in attractive and saleable packages were the principal items.

Other stands included those of the CHESEBROUGH MANUFACTURING CO.; MONTGOMERIE & Co., LTD. (Berina foods); SISTER LAURAS INFANT & INVALID FOOD CO., LTD.; ZENOBIA, LTD.

Pharmaceutical Society of Ireland

Council Meeting

THE monthly meeting of the Council was held at 67 Lower Mount Street, Dublin, on September 13. Mr. P. Brooke-Kelly (president) in the chair. Other members present were Messrs. T. Costelloe (treasurer), C. Cremen (vice-president), D. J. Nugent, M. J. Kieran, P. J. Fielding, J. A. O'Rourke, J. Gleeson, J. T. Dwyer and Dr. J. A. Mitchell. Apologies for inability to attend were received from Messrs. T. J. Smith, D. Warwick, F. J. Fitzpatrick and P. Liston.

DEATHS

At the opening of the proceedings the PRESIDENT moved that the deepest sympathy of the Council be conveyed to the relatives of the late Mr. James Michie, M.P.S.I., and the late Mr. George Brown, M.P.S.I.

The VICE-PRESIDENT (Mr. Cremen) seconded the motion, which was passed in silence, all members standing.

CORRESPONDENCE

A letter was read from Mr. E. de Valera, President of the Executive Council, acknowledging the vote of sympathy passed on the death of his mother.

The Ministry for Justice wrote intimating that the amended Regulations for the Preliminary examination were approved.

THE SALE OF LYSOL

A letter was read from Dr. J. J. Burke, coroner for co. Roscommon, containing the following passage: "At an inquest held by me . . . the verdict was that the deceased died from acute corrosive poisoning and cardiac failure, resulting from a large dose of lysol self-administered whilst temporarily insane. I have been asked by the jury and a qualified chemist named Alice Kieran to bring under the notice of your Society that the lysol was sold by a person at Ballyfarnon other than a chemist, or druggist, and to restrict the sale of lysol by such persons."

Mr. M. J. Kieran (husband of Mrs. Alice Kieran) explained in detail to the Council the circumstances of the case. On the motion of Mr. NUGENT, seconded by Mr. GLEESON, the following resolution was passed:—"That the Council recommend to the College of Physicians that lysol be added to Schedule II of the Sale of Poisons Act."

A further resolution was adopted on the proposal of Mr. O'Rourke, seconded by Mr. PARKES:—"That the best thanks of the Society be tendered to Mrs. Kieran

for bringing the matter of the sale of lysol before the coroner and jury in a recent poisoning case."

RESTORATION TO THE REGISTER

Mr. W. J. Moloney wrote enclosing a declaration and fee, and requesting restoration of his name to the Register of Pharmaceutical Chemists. The registrar was authorised to restore the name to the Register.

CHANGES OF ADDRESS

The following notified changes of address:—

Mr. Jos. A. Kissane, M.P.S.I., from 22 Main Street, Tipperary, to The Medical Hall, High Street, Tullamore; Miss Ellen M. Clery, Ph.C., from 3 Lower Mallow Street, to 1 Clare Terrace, South Circular Road, Limerick; Messrs. Eamon Fallon, Ph.C., to McGroarty's Pharmacy, Miltown Malbay; J. W. W. Agnew, Ph.C., to The Hamlet Pharmacy, 61 Anerley Road, Upper Norwood, S.E.19; George Kirk, Ph.C., from 101 Newtowndale Road, to 106 York Street, Belfast; Joseph Shillington, Ph.C., to 1 Harberton Park, Balmoral, Belfast; John P. Timmon, Ph.C. (late of Navan, co. Meath), to 49 East 104 Street, New York; T. W. McMurray, Ph.C., from 72 Southampton Row, London, W.C.1, to Church Street, Ballybay, co. Monaghan; T. A. Crotty, Ph.C., from Bridge House, Kilkenny, to 19 Charlotte Street, Harcourt Road, Dublin; T. H. M. Watson, Ph.C., from Salisbury to the Government Hospital, Gatooma, Rhodesia; C. Murphy, R.D., to 15 Mornington Road, Ranelagh, Dublin; Jas. H. Davis, registered assistant, to Ballina, Meesda, Wicklow.

PRELIMINARY REGISTRATION

The following submitted certificates from other bodies, and were granted Preliminary registration:—Misses A. M. Caulfield and M. E. Quinn, and Messrs. A. B. Curran, J. P. Moan, W. P. Shiel, T. Loughnane, R. E. Allshire, E. M. Ryan, E. J. MacSweeney, T. M. Nolan, M. Walsh, M. C. Maher, C. Gilligan and J. Wall.

REPORTS FROM COMMITTEES

The reports of the House, Law and Schools Committees, and the Poisons Schedule Subcommittee were submitted and approved.

REPORTS FROM EXAMINERS

The reports of the examiners on the Preliminary, Licence, Assistant and Registered Druggist examinations showed that there were thirty-three entrants for

the last Preliminary examination, of whom ten passed, twenty-one failed and two withdrew. For the Assistants' examination eighteen entered, eleven passed and seven failed. For the Licence examination forty-six entered, four withdrew, twelve passed and thirty failed. Only two entered for the Registered Druggist examination, and both candidates failed.

DEATHS NOTIFIED

The registrar notified the deaths of James Michie, M.P.S.I., D. C. Breen, Ph.C., S. Suffern, R.D., R. G. Creed, R.D., George Brown, M.P.S.I., J. D. Carse, R.D.

EXAMINATION MATTERS

On the motion of Mr. T. COSTELLOE, seconded by Mr. GLEESON, the Council recommended that the examiners' remuneration be increased to 12s. 6d. per candidate, with a minimum of £6 6s. per examination.

The Council resolved that public notice be given that candidates for examinations up to and including October 1933 will not be expected to possess a knowledge of the British Pharmacopoeia, 1932, but at subsequent examinations candidates will be examined on the assumption that their training since October 1932 has been based on the British Pharmacopoeia, 1932.

Mr. FIELDEN moved: "That the resolution *re* Pharmacy School of June 15, 1932, be amended by the following words: 'And the following schools be recognised under these regulations: The School of the Pharmaceutical Society of Ireland, Dublin; The Pharmacy School, Cork Technical Institute.'

Mr. COSTELLO seconded the resolution.

The PRESIDENT said the motion raised a very big issue, and he suggested that the entire question of the recognition of schools be referred back to the Schools Committee. The president's suggestion was unanimously adopted.

PROPOSED PHARMACY BILL

Mr. O'ROURKE moved: "That the Council send a deputation to the Minister for Justice with reference

to the Poisons and Pharmacy Act, and that notification be sent to other interested bodies with a view to securing their support for the speeding up of the proposed Pharmacy Bill." In moving the resolution, Mr. O'Rourke said he was more concerned with the last part of it than the first. There would be a meeting of the bishops in Maynooth in October, and he was anxious to have some recommendations sent forward to them from the Council.

After discussion, Mr. O'ROURKE withdrew his original resolution, and proposed the following resolution, which was seconded by the PRESIDENT and carried: "That the Council of the Pharmaceutical Society respectfully urge their lordships to press for the putting into force of the recommendations of the Criminal Law Amendment Committee with reference to the sale of contraceptives and noxious drugs."

ELECTIONS AND NOMINATIONS

The following were elected to membership of the Society: Messrs. M. J. Hardy, The Bungalow, Foxford, co. Mayo; George Gilmore, Medical Hall, High Street, Kilkenny; John A. Campbell, c/o Mr. John Hickey, 169 Church Street, Dublin; Eric L. Grubb, The Medical Hall, Rathfarnham; Miss F. M. Flood, 140 Terenure Road North, Terenure, Dublin.

Nominations for membership were received on behalf of Miss Rose Reilly, The Hotel, Newtownbutler; Messrs. P. J. Lillis, Howards Medical Hall, Kilrush, co. Clare; M. G. Duncan, c/o W. J. McKane, Ballina, co. Mayo; Wm. Creaven, Main Street, Loughrea, co. Galway; Francis McAnally, 44 Dublin Street, Carlow.

LICENCES SEALED

The pharmaceutical licences of the following were signed and sealed: Misses M. A. Rogan, M. E. Galvin, Mary E. Boland, Winifred Ryan, T. H. Ryan, Myra McGoldrick, and Messrs. Patk. Keogh, John E. Elmes, Samuel Greene, John J. Howard, Kevin A. Bowman and J. P. Holland.

Topical Reflections

By Xrayser

"The Soul of Pharmacy"

might well have been the title of Mr. Herbert Skinner's inspiring address to the British Pharmaceutical Conference, in which the quoted phrase appears like a flash that illuminates the entire pharmaceutical encompassment. The address as a whole makes it clear how leadership in the practice of pharmacy as a professional occupation has passed to the hospital pharmacist who knows how to take advantage of the opportunities which present themselves to him, and renders it evident that the more the general pharmacist and his representative organisations do what they can to support the claims of hospital pharmacists the better it will be for the craft as a whole. Contrasting with Mr. Skinner's assertion that loss of the soul of pharmacy is much too serious a deprivation to be made good by profits on proprietary and packed goods I find the letter of "Country Chemist," with whose indictment of the case for professionalism one cannot help but sympathise (C. & D., September 17, p. 357). Yet the fact remains that, unless we are to progress on such lines as are indicated in Mr. Skinner's address, there is no worthwhile outlook for the future of the business of the chemist and druggist as a separate occupation.

Anyone

can hand out proprietary and packed goods, without having undergone the training and examination imposed upon candidates for the pharmaceutical qualification; ordinary dispensing does not call for all the knowledge

that the modern pharmacist is required to absorb, and a Departmental Committee has arrived at the conclusion that no qualification whatever is needed by sellers of poisons! There would, in fact, appear to be no future for the business of the general pharmacist as a distinct and separate occupation unless it be based, as Mr. Skinner would have it, upon the practice of real pharmacy. It may be admitted, however, that "Country Chemist" hits the mark when he demands that the British Pharmaceutical Conference be made more practical.

Facing the Facts,

as we always ought to do, there seems to be no getting away from the preponderance of manufacturers and wholesalers in the list of those who submit or discuss papers which are read or taken as read at the British Pharmaceutical Conference. The names of persons carrying on the business of a chemist and druggist are markedly absent from that list, and it does not greatly surprise me that such should be the case. But I can imagine a very different state of affairs revealing itself at a business convention of shopkeeping pharmacists, and it should be all to the good if scientific, business and political interests could all be catered for during the same week, as that should have the effect of bringing together more closely the different sections of our craft, with a much larger proportion of retailers than we are accustomed to find taking part in the proceedings apart from the social gatherings.

BRITISH PHARMACEUTICAL CONFERENCE

The Proceedings

(CONCLUDED FROM THE C. & D., SEPTEMBER 17, p. 350)

Science Section

Wednesday Morning

The next paper was

Note on Calcium Glycerophosphate

By C. T. BENNETT, B.Sc., F.I.C., Ph.C., and N. R. CAMPBELL

[ABSTRACT]

Two varieties of the salt are available in commerce, the neutral salt, and the so-called soluble or acid salt, the latter usually containing a considerable quantity (5 to 10 per cent.) of citric acid. In the authors' opinion, it is desirable that the neutral salt alone should be used for compound syrup of glycerophosphates, B.P.C. Various methods, state the authors, have been prepared for the assay of this salt, and the following notes may be of interest:—(1).—*Determination of Calcium by Ignition.*—Difficulty is experienced in obtaining a white residue of calcium pyro-phosphate, and variable results are obtained unless certain precautions are taken. The following method has been found to be satisfactory:—Weigh accurately 0.5 gm. in a platinum dish, add 1 gm. of ammonium nitrate and a few drops of water. Evaporate to dryness on a water bath and heat gently until the ammonium nitrate has been volatilised. Add a few drops of nitric acid, evaporate to dryness and gently ignite. Repeat the treatment with nitric acid and ignition. Finally ignite for about thirty seconds over a full bunsen flame. Cool and weigh as calcium pyrophosphate. Each gram of the residue is equivalent to 1.655 gm. of anhydrous calcium glycerophosphate. (2).—*Titration of Precipitated Calcium Oxalate.*—Take 0.4 to 0.5 gm., dissolve in 25 mils of water, and add 25 c.c. solution of ammonium chloride. Make strongly alkaline with ammonia and add 35 mils of solution of ammonium oxalate. Add 100 mils of water and heat on a water bath for thirty minutes with occasional stirring. Leave overnight. Filter on fine texture filter paper and wash alternately with 2.5-per-cent. solution of ammonia and hot water until washings are free from oxalate. Wash the precipitate off the filter paper with 50 mils of 25-per-cent. sulphuric acid and then 100 mils of hot water. Bring to boil, cool to about 80° C. and titrate with N/10 potassium permanganate. The addition of mineral acid or acetic acid to aid solution should be avoided, as this would tend to cause hydrolysis of the glycerophosphate with production of phosphate. This phosphate would be precipitated on making ammoniacal and would cause low results. (3).—*Direct Titration.*—Take 1 gm., dissolve in 100 mils of water and neutralise to phenolphthalein with N/10 hydrochloric acid or N/10 sodium hydroxide, according as reaction is alkaline or acid. Add 1 drop of solution of methyl orange and titrate with N/2 hydrochloric acid to first pink end-point. (4).—*Ferrey's Titration Method.*—“Year-book of Pharmacy,” 1926, 49. (The authors give tables.) The direct titration method and Ferrey's method, state the authors, are satisfactory only if the sample contains no citric acid. Samples exceeding a limit of 1 mil N/10 per gm. should be rejected. In the direct titration process, dimethylaminoazobenzene should replace methyl orange for better end-points with equally good results. Bromocresol green cannot be used, as it yields an end-point after addition of very little N/2 hydro-

chloric acid, from which reading no measure of the glycerophosphate may be obtained. Thymol blue might replace phenolphthalein as an indicator for acidity or alkalinity, since the figures agree. The end-point, however, is extremely obscure with N/10 solutions, and the substitution is not recommended. Thymolphthalein gives indications differing from phenolphthalein, and its use in place of phenolphthalein would involve different standards or limits. (A table is given.) The opinion is expressed that the ignition test, together with a test for solubility, is most generally satisfactory. Calcium glycerophosphate should comply with the following tests:—(1) It should be soluble in fifty parts of water at 15° C.; (2) it should contain not less than 84 per cent. of anhydrous calcium glycerophosphate when assayed according to Ferrey's method; (3) it should yield on ignition not less than 50.8 per cent., corresponding to at least 16 per cent. of calcium (equivalent to 84 per cent. anhydrous calcium glycerophosphate); (4) one gm. dissolved in 100 c.c. of distilled water requires for neutralisation not more than 1 mil of N/10 hydrochloric acid or N/10 sodium hydroxide for neutralisation to phenolphthalein.

The experimental work in connection with this note has been conducted in the laboratory of Wright, Layman & Umney (1932), Ltd.

This was taken as read, and there was no discussion.

In the absence of the authors the following communication was read by Mr. R. R. BENNETT:—

The Estimation of Essential Oil in Drugs and Spices

By T. TUSTING COCKING, F.I.C., Ph.C., and G. MIDDLETON, B.Sc., F.I.C.

[ABSTRACT]

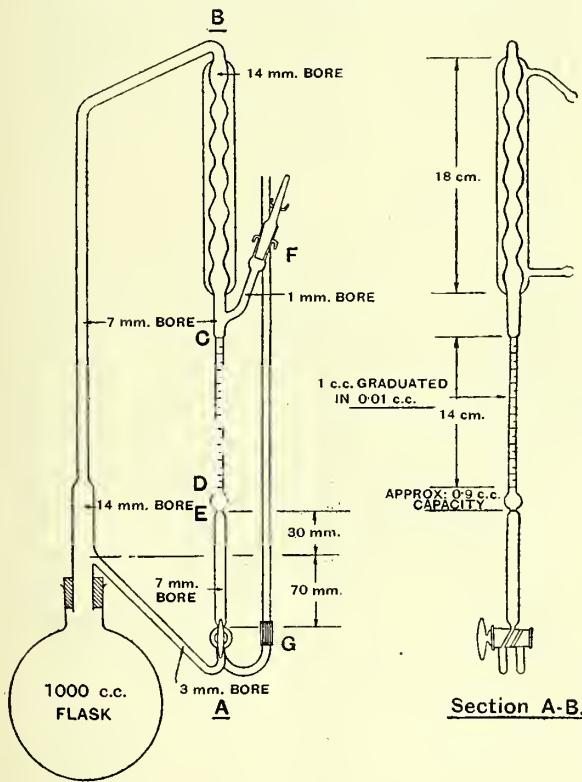
STANDARDS for essential oil content are specified in certain pharmacopœias (including the D.A.B. VI and the U.S.P. X) in the case of drugs and spices in which these constitute the chief therapeutic value. However, no such requirement appears in the British Pharmacopœia, 1932. The purpose of this note is to describe an apparatus for which it is claimed that it provides the simplest and most direct means of carrying out such estimations. The scale drawing shows the proportions found to be most suitable. The measuring tube (CD) is made from a 1-c.c. pipette, graduated in 0.01 c.c., and the small bulb (DE) has a capacity of 0.9 c.c. The wider tube below this forms a receiver in which oil separates from the aqueous distillate.

The apparatus must be perfectly clean, which is best attained by keeping filled with sulphuric acid-dichromate mixture when not in use. It is washed out with distilled water immediately before placing a suitable quantity of drug and about 300 c.c. of water in the flask. The two-way stop cock must not be greased. The receiver is filled with distilled water through the side tube (FG) and the stopcock turned so that the return tube is filled by overflowing into the flask. A slip of paper (held in place by a rubber band) is inserted between the stopper and its seating, communication with outside air being restricted to the narrow passage thus formed.

Distillation is continued for two hours, the rate of heating via asbestos-filled gauze being adjusted so that the measuring tube does not become warm. Bridging at the bulb must be broken down by tilting the whole apparatus. After removing the flame, the apparatus is allowed to stand for ten minutes to drain. The tap

BRITISH PHARMACEUTICAL CONFERENCE · 1932 ·

is then turned so that distilled water from the side tube enters the receiver very slowly and raises the layer of oil into the measuring tube, where the volume is read off. If, on raising the oil, it is found to hang to one point on the wall of the tube, the liquid should be allowed to stand for a few minutes with the mean level of the oil a little above this point so that the surface tension pulls the oil away from the wall. In order to ensure that the whole of the oil has been distilled the stopcock is turned to its



original position and the distillation continued for another hour, after which the volume of the oil is again measured.

In the case of oils which are heavier than water, which do not separate cleanly, or which crystallise at ordinary temperature, it is necessary to use a solvent, and, after many trials, oil of turpentine was selected as being the most suitable. In such cases 1 c.c. of recently distilled oil of turpentine and 300 c.c. of water are placed in the flask, and distillation is carried on for one hour. The level of the condensate in the receiver is then raised by running in distilled water from the side tube until the lower surface of the turpentine coincides with the graduation mark at E, and the level of the upper surface is read off. The drug is added to the flask and the distillation continued. At first emulsified oil may be carried right through the layer of solvent in the receiver, but on continued boiling clear separation is obtained. The volume of oil plus solvent is finally read off as before.

The accuracy of the method has been checked by distilling known volumes of the freshly-redistilled essential oils with water and measuring the amount recovered. There is always a loss of oil, which is fairly constant for a particular oil, and is probably due in most cases to the solubility in water. This inference is confirmed by the more accurate figures obtained with the oils of cardamom and coriander when using a solvent. With oil of cinnamon the recovery of oil is very incomplete, no doubt due to resinification of the oil.

The amount of essential oil in a number of drugs and spices has been estimated, and Table I [II] shows the conditions employed together with the results obtained. In all cases the substance was powdered and the distillation continued until the volume of oil remained constant.

TABLE I [II]

| Drug or spice | Amount taken | Solvent used | Results obtained (percentage of oil) | Remarks |
|---------------------|--------------|--------------|--------------------------------------|--------------------------------------|
| Aniseed (2 samples) | 20 | Turpentine | 2.2 2.44 | |
| Buchu (3 samples) | 10 | Turpentine | 1.1 1.46 1.89 | Care required to avoid frothing over |
| Caraway | 10 | Nil | 3.18 | |
| Cardamom seeds .. | 10 | Nil | 3.90 | |
| Cascarilla bark .. | 10 | Nil | 2.1 | |
| Clove (4 samples) | 4 to 5 | Turpentine | 17.1 15.95 16.45 16.5 | |
| Coriander | 20 | Nil | 0.3 | |
| Cubeb (2 samples) | 4 | Nil | 19.4 19.3 | |
| Dill | 10 | Nil | 3.50 | |
| Fennel | 10 | Turpentine | 2.46 | |
| Ginger (3 samples) | 10 | Nil | 1.84 1.5 1.8 | |
| Myrrh | 5 | Turpentine | 2.56 | |
| Nutmeg (2 samples) | 5 | Nil | 13.0 9.92 | Liable to froth |
| Pimento (2 samples) | 10 | Turpentine | 4.5 3.8 | |

It is probably not possible with any method of steam distillation to obtain all the essential oil from a drug; traces of high boiling constituents are no doubt left behind, and other constituents may be decomposed. The method must be looked upon as an estimation of the amount of oil that can be distilled from a drug, and not as a determination of the oil contained in a drug. Since the essential oils constitute the chief active principles of the drugs mentioned, it is suggested that these drugs should be assayed for their yield of oil, and that minimum limits should be specified in future issues of the Pharmacopoeia. The results obtained are volume-in-weight percentages, but there is no reason why this basis should not be adopted as a standard instead of the more usual weight-in-weight percentages. Through the kindness of Stafford Allen & Sons, Ltd., and W. J. Bush & Co., Ltd., samples of material used for the distillation of essential oils on a large scale were placed at the authors' disposal together with a report of the manufacturing yields obtained. These results are given in Table II [III]. These do not show satisfactory agreement in some cases, but this is perhaps not very surprising in view of the different conditions of distillation on a manufacturing scale.

TABLE II [III]

| Drug | Per cent. manufacturing yield | | Per cent. by new process v/w (B) | Percentage difference (B-A) = $\frac{B-A}{A} \times 100$ |
|--------------------|-------------------------------|---------|-------------------------------------|---|
| | w/w | v/w (A) | | |
| Buchu | 1.47 | 1.52 | 1.1 | -27 |
| Cascarilla bark .. | 1.77 | 1.94 | 2.1 | +8 |
| Cloves | 17.15 | 16.30 | 17.1 | +5 |
| Cubeb | 19.45 | 21.19 | 19.3 | -9 |
| " | 18.00 | 19.66 | 19.4 | -1.3 |
| Ginger | 2.33 | 2.64 | 1.84 | -30 |
| Nutmeg | 13.5 | 14.91 | 13.0 | -13 |
| " | 9.94 | 10.90 | 9.92 | -9 |
| " | 8.35 | 9.63 | 9.9 | +3 |
| Pimento | 3.76 | 3.65 | 4.5 | +23 |
| " | 3.32 | 3.18 | 3.8 | +19 |

SUMMARY

A return-flow apparatus for the direct estimation of the amount of essential oils that can be distilled

BRITISH PHARMACEUTICAL CONFERENCE · 1932 ·

from drugs is described. It enables a volume of distilled oil not exceeding 1 c.c. to be measured with an accuracy of about ± 0.002 c.c. The estimation is carried out on quantities of 4-20 gm. of the drug. For heavy oils and those which do not separate well or which crystallise, 1 c.c. of oil of turpentine is added to the apparatus and the increase in volume determined. Satisfactory recovery (with the exception of oil of cinnamon) is shown to be obtained by the distillation of known quantities of essential oils with water. Results obtained with a number of drugs are given. The results obtained on the manufacturing scale are compared with those given by the apparatus.

DISCUSSION

MR. BREWIS pointed out the difficulties of having a sample sufficiently large to make the estimation and of measuring the oil with sufficient accuracy to pass or condemn an aromatic powder. He wished such a process could be evolved, and was glad the B.P. 1932 had come out without a standard for aromatic drugs.

MR. DEANE said a standard was desirable, and this paper was a move in the right direction. He agreed with the previous speaker regarding the difficulties, especially as to sampling. The oil may be decomposed in manufacturing operations, which may also be responsible for varying results.

DR. TOCHER referred to the methods of sampling laid down for fertilisers and feeding-stuffs.

THE CHAIRMAN expressed the thanks of the meeting to the authors of the paper.

The next paper taken was

Notes on *Mistura Bismuthi Composita Acida cum Pepsino, B.P.C.*

By C. J. EASTLAND, A.I.C., PH.C.

[ABSTRACT]

ATTENTION has been called from time to time to the instability of *mist. bism. co. acida cum peps.* of the B.P. Codex, 1923. By exercising care in its preparation and by a judicious choice of the soluble bismuth sodium tartrate employed it is possible to produce initially presentable mixtures. With many samples of the bismuth compound, a considerable amount of insoluble matter is formed during the preparation of the mixture, and much of the colouring matter is adsorbed and removed during the subsequent filtration. Frequently after a lapse of time varying from a few days to two or three months the preparation made with an apparently satisfactory bismuth sodium tartrate first becomes cloudy and then produces a deposit more or less adherent to the container. It occurred to the author that a more suitable method would be one based in the first place on the preparation of normal bismuth tartrate by the interaction of bismuth oxynitrate and tartaric acid. By washing the bismuth tartrate so formed with 0.375 per cent. tartaric acid little or no hydrolysis takes place, and it is thus possible to obtain a compound of constant composition having a $Bi:C_6H_4O_6$ ratio of 2 : 3 that is, the normal tartrate, $Bi_2(C_6H_4O_6)_3$. The method of preparation in detail is as follows:—

Bismuth Sodium Tartrate (Acid)

Bismuth oxynitrate 70 gm.
Tartaric acid, powdered 55 "

Thoroughly mix the two powders in a mortar and add 80 mils of water. Stir the mixture continuously until it forms a stiff paste. Allow to stand for an hour or until a small sample is almost completely soluble in dilute sodium hydroxide solution, the solution still remaining acid to methyl red. Rub down to a cream with 100 mils of a 0.375-per-cent. solution of tartaric acid; allow to stand for an hour, add a further 400 mils of the same solution and allow to stand overnight. Decant the supernatant liquor or filter on a Buchner funnel. Repeat the washing with

0.375-per-cent. tartaric acid solution, using quantities of about 500 mils for each until the washings no longer give a positive test for nitrates. To the moist product add 17.26 gm. of tartaric acid, mix well, allow to stand for an hour, dilute with 50 mils of water and then add, with constant stirring, 100 mils of 20-per-cent. sodium hydroxide solution. Carefully add, if necessary, a further quantity of dilute sodium hydroxide solution until the mixture is neutral to brom-cresol green or slightly acid to methyl red (pH 4.6). If intended for the immediate preparation of the *mistura* make the volume up to 600 mils with distilled water, decolorise with charcoal and filter. If it is desired to retain the solution as such, chloroform (1 : 200) should be added to prevent fungoid growths. The analytical figures below on three such liquors made by different persons show that reasonably consistent results are obtainable.

| Batch | Total solids (per cent.) | Bismuth as Bi_2O_3 (per cent.) | "Free acid" (per cent. of total solids) |
|-------|-----------------------------|-------------------------------------|---|
| 1 .. | 23.26 | 8.99 | 9.46* |
| 2 .. | 23.46 | 8.97 | 11.2 |
| 3 .. | 24.24 | 9.1 | 11.0 |

* Neutralised until just acid to litmus.

The solution leaves a glass-like solid or porous mass when evaporated to dryness on a water bath or first concentrated to a thick syrup and then dried in a vacuum oven. After powdering it is readily soluble in water. The solid or liquor have been used alternatively in the preparation of *mist. bismuthi comp. acid. cum pepsin*, made according to the codex and other modified formulas. A slight precipitate formed when solution of carmine was employed, but the filtered mixture (B.P.C.) has remained bright for four months. Tincture of cudbear was found to be more satisfactory, but has been abandoned owing to liability of colour to bleach, especially when exposed to light.

Finally the following formula is suggested as an alternative to that of the B.P. Codex 1923:—

| | |
|---------------------------------|--|
| Bismuth sodium tartrate .. | 9.5 gm. (or equivalent in the form of liquor) |
| Pepsin .. | 1.83 gm. |
| Liquid extract of nux vomica .. | 1.0 mils |
| Glycerin of Bordeaux B .. | 2.0 mils |
| Dilute hydrocyanic acid .. | 3.34 mils |
| Chloroform water B.P.C. | to 100.00 mils |

Dissolve the bismuth sodium tartrate in 56 mils of the stronger chloroform water (or dilute the "liquor" to the same volume) and dissolve the pepsin in the solution. Add the glycerin of Bordeaux B and the liquid extract of nux vomica diluted with 24 mils of chloroform water. Filter with the aid of talc, add the hydrocyanic acid and sufficient stronger chloroform water to produce the required volume. The glycerin of Bordeaux B contains 1 per cent. of this dye in a mixture of one part of glycerin and three parts of water.

Mixtures made according to this formula, some containing the bismuth sodium tartrate prepared by the method outlined in this paper, others the better commercial samples, have not deposited after five months.

SUMMARY

Details of a method have been suggested for the preparation, by the pharmacist, of a soluble acid bismuth sodium tartrate. It gives consistent results and should be equally applicable to larger scale production. Criticisms of the *mistura bismuthi composita acida cum pepsino* of the B.P.C. are mentioned, and a modified formula, which gives stable mixtures, is put forward. The author thanks Allen & Hanburys, Ltd., for permission to publish this paper.

This was read on behalf of the author by Mr. EVERE.

DISCUSSION

THE CHAIRMAN said this was one of the preparations which sometimes caused trouble.

DR. TOCHER asked if there was any proteolytic action in the case of this preparation.

BRITISH PHARMACEUTICAL CONFERENCE · 1932 ·

Mr. EVERE said such action depended on the acidity of the preparation.

Mr. POWELL asked if the dilute hydrocyanic acid was any more stable than in the old preparation.

Mr. CORFIELD said the Codex Revision Committee had had difficulty in coming to a conclusion in regard to this mixture. The problem would probably be solved by adopting for the Codex a formula for the liquor.

Mr. JONES, in thanking Mr. Corfield, said he was glad he had suggested the use of a liquor. Washing with tartaric acid might have a good effect.

Mr. EVERE replied on behalf of the author.

The next communication was on: —

A Classification of Some Recent Biological Methods

By J. H. BURN, M.A., M.D.

[ABSTRACT]

UNTIL recently the problem of devising a method of measuring some newly discovered biological property was always a new problem; the experience gained in measuring one property never seemed applicable to the difficulties presented by another. Certain well-defined rules have now emerged, and, in theory at any rate, it is possible to write out a quantitative method in a few minutes for the estimation of any new serum or hormone or vitamin. The difficulties presented by the serums are less than those presented by the other biological products, inasmuch as serums are never harmful when too strong. On the other hand, it is a matter of great importance that the potency of insulin should be accurately estimated. When the administration of a substance to an animal produces a physiological response or a toxic effect, the effect usually falls into one of two categories. It may be one which can be measured or else it is an "all or nothing" effect. The anti-diuretic effect of pituitary (posterior lobe) extract can be measured; water is given by mouth and the delay in the excretion of this water caused by injecting pituitary extract can be expressed in minutes. On the other hand, the effect of the oestrus-producing hormone in ovariectomised rats cannot be measured; either oestrus follows or it does not follow the injection.

In attempting to estimate the potency of an agent which produces an effect which can be measured, the first rule is that groups of animals rather than single animals must be used. The hypoglycæmic effect of a preparation of insulin must be compared with that of the standard insulin not in two rabbits but in two groups of rabbits. Similarly, the anti-diuretic effect of pituitary extract is observed in groups of eight rats; the preparation to be tested is given to each of eight rats, and simultaneously the standard with which it is to be compared is given to each of eight more rats. Workers have always recognised that more than one animal should be used in making observations, but usually they have complicated their results by administering different doses to different animals. It is essential that when the effect of an agent is examined on a group of animals, the same dose should be given to each, in order that the average effect of that dose may be determined, and so compared with the average effect of a particular dose of the standard. Very often the use of the same dose for each animal in a group has the compensation that the effect in each animal of the group need not be determined. By the use of a group of six or ten animals, all of which receive the same dose, it is possible to minimise very considerably the individual variation.

When a dose X of a preparation being tested has produced an average effect M in a group of animals, and a dose Y of the standard has produced an average effect N in another group of animals, it remains to relate the potency of the preparation to that of the standard. This is usually done by the aid of a dose-effect curve, previously determined. A series of doses of the standard is chosen and the average effect produced by each dose in a group of animals is observed. The curve relating dose to effect is then constructed. The curve shows

that an effect M is produced by a dose P, and an effect N is produced by a dose Q, hence

$$\frac{X \text{ gm. preparation under test}}{Y \text{ gm. standard}} = \frac{P}{Q}$$

from which the potency of the preparation may be calculated. Examples of methods of this kind are to be found in the estimation of insulin by the hypoglycæmia produced in rabbits (Marks), the estimation of pituitary (posterior lobe) extract by the anti-diuretic effect on rats (Burn), the estimation of vitamin A by the growth effect in rats (Coward, Key, Dyer and Morgan), the estimation of vitamin C by the effect on the teeth of guinea-pigs (Key and Elphick), the estimation of vitamin D by the line test (Dyer), or by ash determinations in the bones of rats (Hume, Pickersgill and Gaffikin).

In the estimations of insulin and of pituitary extract referred to, not only is the average effect of the preparation in one group of rats compared with the average effect of the standard in a second group, but, after a day or two, the comparison is repeated on the same animals reversing or "crossing" the groups, so that the group which first received the standard now receives the preparation being tested and vice versa. Thus the error due to variation between two groups of animals is reduced inasmuch as the average effect of both standard and preparation is determined in both groups. The details of the estimation of insulin in rabbits by Marks's method are now fairly well known. In the estimation of the anti-diuretic effect of pituitary extract, the effect is measured by noting the time which elapses from the administration of water by stomach tube and subcutaneous injection of pituitary extract to the point of maximum rate of excretion of the water.

In the estimation of vitamin A, a group of young rats is fed on a diet free from this vitamin, and by weighing them twice a week the point is determined at which they cease to grow. As each rat in a group ceases to grow, it is given the same dose of the preparation to be tested; similarly each rat in a second group receives the same dose of the standard. Each rat receives its dose daily for five weeks, and its increase in weight in this period is determined; from the figures the average increase in weight of the group of rats receiving the unknown, and also of the group of rats receiving the standard, is calculated. In arriving at the average increase in weight, all rats, even those which have lost weight, are included.

In the estimation of vitamin C and of vitamin D by the line test, the quantitative expression of the average effect produced is more difficult. To estimate vitamin C, guinea-pigs are fed on a scorbutic diet for fourteen days, and are given a daily dose of the preparation to be tested during this time. The guinea-pigs are killed and sections of the roots of the lower incisor teeth are examined for signs characteristic of scurvy. Key and Elphick have constructed an arbitrary scale so that a tooth may be classified and given a value from 0 to 4 according as it has signs varying from severe scurvy to complete absence of scurvy. By means of this scale, the average degree of protection from scurvy in a group of guinea-pigs can be expressed numerically, and it is found that even when the number of animals in a group is as few as five, the average protection is closely proportional to the dose of anti-scorbutic administered. This method has resulted in a very striking improvement in the accuracy obtainable in vitamin C estimations, and deserves a wider appreciation than it has yet received. A similar scale has been prepared by Dyer for use in the line test for vitamin D. In this test young rats are fed on a rickets-producing diet, so that the ends of their long bones have a much smaller amount of calcium than usual. The rats are then given the anti-rachitic substance whose potency is to be determined, and after ten days they are killed so that an examination may be made of the deposition of calcium in the ends of the long bones. The deposition may be slight, or so considerable as to indicate complete healing of rickets. Dyer has described a scale from 0 to 6 to

BRITISH PHARMACEUTICAL CONFERENCE · 1932 ·

represent bones of all stages from fully rachitic to those completely healed; thus numerical expression is given to the effect of the anti-rachitic substance in each rat, and the average effect of a dose of the preparation in one group of rats can be compared with the average effect of a dose of the standard in a second group.

In order to devise a method of measuring the potency of an agent which produces an "all or nothing" response, the curve relating the percentage of animals which respond to the dose of the agent administered must first be determined.

SUMMARY

It is shown that the different methods used for the estimation of hormones and vitamins may be divided into two classes according as the effect produced is one which can be measured or is one in which the response is "all or nothing." The procedure adopted in the two classes is explained and exemplified by methods of estimating (1) the anti-diuretic potency of pituitary, (2) vitamin A, (3) vitamin C, (4) vitamin D, (5) the hormone of the anterior lobe of the pituitary which produces precocious sexual maturity, and (6) the anti-neuritic vitamin. Most of these methods have been devised in the Pharmacological Laboratories of the Pharmaceutical Society.

This was taken as read. There was no discussion, but Mr. R. R. Bennett read a memorandum from Dr. Underhill, as follows:—In my experience oestrus is a bad example of an "all-or-nothing" effect. I feel sure that certain animals show degrees of response less than the maximum, and it is sometimes difficult to determine whether the response should be classified as oestrus or not. Different observers also take different criteria for the end point of the reaction. A better example of an "all-or-nothing" effect would be the onset of convulsions in mice after the injection of insulin. As regards pooling blood samples in estimation of insulin, I feel that it may be inadvisable to pool samples from different rabbits, as by this means an abnormal animal cannot be detected and discarded. It is also worth pointing out that the advantage of pooling blood samples from the same animal is not that less work is involved in the estimations, but that the estimation is made with considerably greater accuracy, since the determination of small amounts of blood sugar is subject to relatively greater error than the estimation of larger amounts.

The final paper read was:—

Note on the Colouring Matter of Cochineal

By S. TAYLOR, PH.C.

[ABSTRACT]

ATTENTION has recently been drawn to what was called the gelatinisation of solutions of cochineal. The gelatinisation is not such as takes place with kino, because, states the author, he has found that a limpid liquid can be completely filtered away leaving a dark colloidal film upon the filter paper. He had on many occasions endeavoured to determine the cause of this phenomenon and also the percentage of cochineal which is soluble in water, but had always found the material becomes putrid. Relatively large volumes of solvent are necessary to remove all the soluble matter. When water is used slow percolation for more than a month will fail to remove all the soluble colouring matter, and it is always impossible to secure the residue completely to weigh it. The sintered glass disc has, however, provided a means by which the estimation may be carried out with success in a relatively short space of time. By securing a Gooch crucible with a No. 4 disc to the end of a large percolator and interposing several layers of fine muslin between the two a capsule is formed which will retain the cochineal and allow water to pass continuously through it. The finest disc (No. 4) only is satisfactory and retains all the insoluble part. A water pressure-pump can be fitted to the lower orifice of the crucible to expedite percolation. It was found that not quite 50 per cent. of defatted

cochineal was insoluble in water. The residue is a magma of a dark green, almost black, colour, which when dried is easily reduced to a dirty black powder. The powder when ground up with water returns to the blackish-green dispersion which forms an orange-coloured solution with acids and a purple one with alkalis, and is, therefore, useful as an indicator. It gives a sharp change of colour from orange to purple at PH values of 4 and 10, and is very satisfactory in alkaloidal titrations as well as in ordinary use. It follows, therefore, that whilst defatted cochineal is only about 50 per cent. soluble in water it is more soluble in acid and alkaline solutions. Using a very weak solution of caustic potash (about 0.05 per cent.), 76.5 per cent. was soluble. For many years the author has made a practice of extracting the colour from cochineal by using first a weak acid and then a weak alkaline solution, mixing the two, and by this means he found he got a much more darkly coloured product than by any other means he knew of.

SUMMARY

(1) Defatted cochineal is about 50 per cent. soluble in water.

(2) The insoluble portion is blackish-green in colour, and is soluble in both alkalis and acids. Its colour changes from orange at PH 4 to purple at PH 10, and it is a useful indicator.

(3) The insoluble portion is responsible for the so-called gelatinisation of solutions of cochineal.

(4) Percolation with weak alkali will almost completely dissolve cochineal.

There was no discussion.

Mr. SKINNER, in closing the session, said he had already thanked the authors of the papers, and he did so again collectively. Members fully appreciated the work that had been put in, and he understood that twenty-nine papers was a record for the Conference. In conclusion, he expressed the thanks of the meeting to the editor (Dr. Hampshire) of the "Quarterly Journal" for his assistance, to the Pharmaceutical Society for providing the "red books," and to the members for their help during the meeting.

CORRIGENDUM.—In our issue of September 17 the name "batyl alcohol," which occurs twice in the paper on fish-liver oils, was wrongly given.



Photo]

[Cleworth
MR. W. J. MOFFETT (LEFT) AND MR. T. ASHWORTH AT
CRUDEN BAY

BRITISH PHARMACEUTICAL CONFERENCE · 1932 ·

Closing Session

Thursday Morning

AT the somewhat early hour of 9 a.m. the closing session of the Conference was opened by the chairman (Mr. Herbert Skinner), who called upon Mr. Corfield (secretary of the Conference) to read the

REPORT OF THE EXECUTIVE

The following are the principal passages in the sixtieth annual report of the Executive:—

Since the last annual meeting two new corresponding members have been elected and eleven have retired. . . . The Executive regret to record the deaths since the last meeting of the Conference of two vice-presidents—Dr. Claridge Druce, of Oxford, who was president during 1901 and 1902, when the Conference met in Dublin and in Dundee, and Mr. Robert Wright, of Buxton, who contributed many papers to the science sessions and was president when the Conference met in Aberdeen in 1908. These two men have played a noble part in maintaining the prestige of the Conference, and it is to men of their calibre that this body enjoys such prosperity as it does to-day. They regret also to record the death of Mr. H. F. Stevens, of New Zealand, who was a corresponding member for many years. . . .

The representatives of the Executive appointed to meet representatives of the Council of the Society to discuss the possibility of re-establishing a research list and of increasing the output of pharmaceutical research have presented their report. Arising therefrom the Executive Committee decided to revive the Conference research list. Members have been invited to make suggestions for the list, and the British Pharmaceutical Codex Revision Committee have been asked to contribute subjects. A subcommittee consisting of Messrs. Bennett, Boyes, Bull, Corfield, Hampshire and Skinner, appointed to consider the subjects suggested and to prepare a list suitable for publication, presented a report at the last meeting of the Executive, which contained a selection of seventy subjects requiring examination or further investigation with the recommendation that the list be included for publication in the annual report. The Executive hope that the list of subjects suggested by the subcommittee will be of value to those members who have facilities for conducting research and who are in need of suggestions of subjects required for examination, and they invite members to contribute new suggestions so that the list may be maintained as complete and useful as possible.

Your Executive are pleased that the number of contributions to the Science Sessions this year has exceeded the average for many years past. Twenty-nine papers have been contributed, and the Executive wish to record its thanks to the authors of the papers and to the Council of the Society for providing means of publication through the columns of the "Quarterly Journal of Pharmacy and Pharmacology." Your Executive wish to remind all members that papers from research workers in subjects allied to pharmacy and from pharmacists and others on subjects of general pharmaceutical interest are welcomed, and that the science sessions provide ample opportunity for the discussion of results.

As in former years, your Executive have appointed a subcommittee to suggest the names of persons who shall form the Executive for the year 1932-33 and, as provided for by rule 5, the outgoing Executive have pleasure in submitting nominations for membership. A proposal will be submitted for your acceptance at this meeting that the following officers be appointed for 1932-33:—

Chairman.—C. H. Hampshire.

Vice-Presidents.—Messrs. W. A. H. Naylor, E. Saville Peck, J. F. Tocher, David Hooper, F. Ransom, W. Kirkby, E. H. Farr, C. A. Hill, and H. G. Greenish.

Vice-Chairmen.—Messrs. F. W. Gamble, J. T. Humphrey, R. R. Bennett, J. H. Franklin, D. Lloyd Howard, and H. Skinner.

Hon. Treasurer.—F. W. Crossley Holland.

Hon. Secretaries—C. E. Corfield and G. R. Boyes.

Other members of the Executive.—Messrs. H. Berry, N. Evers, H. Brindle, B. F. Howard, B. A. Bull, T. E. Lescher, with W. J. Beardsley, J. Keall, and A. R. Melhuish (nominated by the Council of the Pharmaceutical Society).

If these recommendations of your Executive are adopted the above persons will be the officers of the Conference, together with the following, *ex-officio*:—

President.—The president of the Pharmaceutical Society of Great Britain.

Other Members.—The president of the Pharmaceutical Society of Ireland, the president of the Pharmaceutical Society of Northern Ireland, the chairman of the North British Executive of the Pharmaceutical Society, the chairman of the Local Committee, the honorary local secretary.

The Executive take this opportunity of recording their pleasure that the Conference has met again in Aberdeen, and of expressing their thanks to the Local Executive Committee for making arrangements which have resulted in such a successful Conference. . . . They feel confident that the Conference will continue to maintain its popularity and its usefulness, both for the advancement of pharmaceutical science and as a social function.

The PRESIDENT (Mr. F. Gladstone Hines), in moving the adoption of the report, paid tribute to the secretarial work.

The VICE-PRESIDENT (Mr. John Keall) seconded the adoption of the report. The report was adopted.

TREASURER'S REPORT

The report of the treasurer (Dr. F. W. Crossley Holland) contained the following passages:—

The accounts for 1931 show that the income from subscriptions paid by corresponding members was £60 3s. 6d. This amount has been credited to the "Quarterly Journal of Pharmacy" accounts. On the expenditure side of the account, the general expenses of the Conference were £251 17s. 3d. These figures were included in the Pharmaceutical Society's financial statement presented at the Society's annual meeting in May of this year. The total amount expended is £86 16s. 8d. greater than the expenditure of the previous year. Apart from the figures to which reference has just been made, the Conference account shows a balance in hand of £74 10s. 4d., which sum exceeds the balance in hand of the previous year by the sum of £14 4s. 11d. The net amount of the dividend received from the Consolidated Stock, in which the Conference funds are invested, is rather less than the amount received for the corresponding period of the previous financial year. This fact is due to the higher rate of income tax. Upon comparison being made between the present balance-sheet and those of recent years, it will be seen that the sum of £200 on deposit account, together with the amount of interest which it produced, no longer appears. It may be well to remind members of Conference that this sum formed part of a contribution amounting to approximately £260, which the Conference Executive, by a unanimous vote, contributed towards the expenses of providing a much-needed general index to the "Year-Book of Pharmacy" from its inception.

The report was adopted.

INVITATION FOR 1933

The CHAIRMAN called upon Mr. A. R. Melhuish to extend an invitation to the Conference to meet in London during 1933. Mr. Melhuish, in outlining some of the many amenities of London, pointed out that for the ladies (a most important section of the Conference) there was much of interest.

Mr. R. R. BENNETT, in seconding the invitation, also extended a welcome on behalf of London chemists.

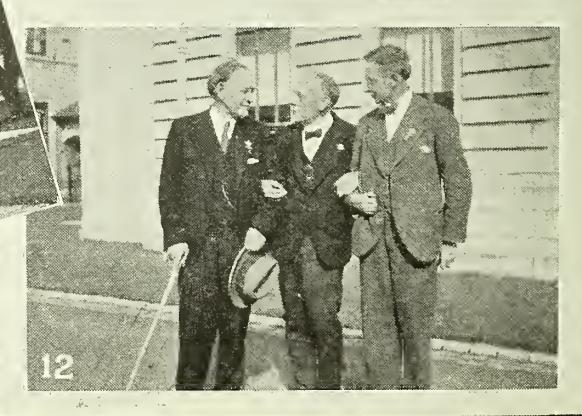
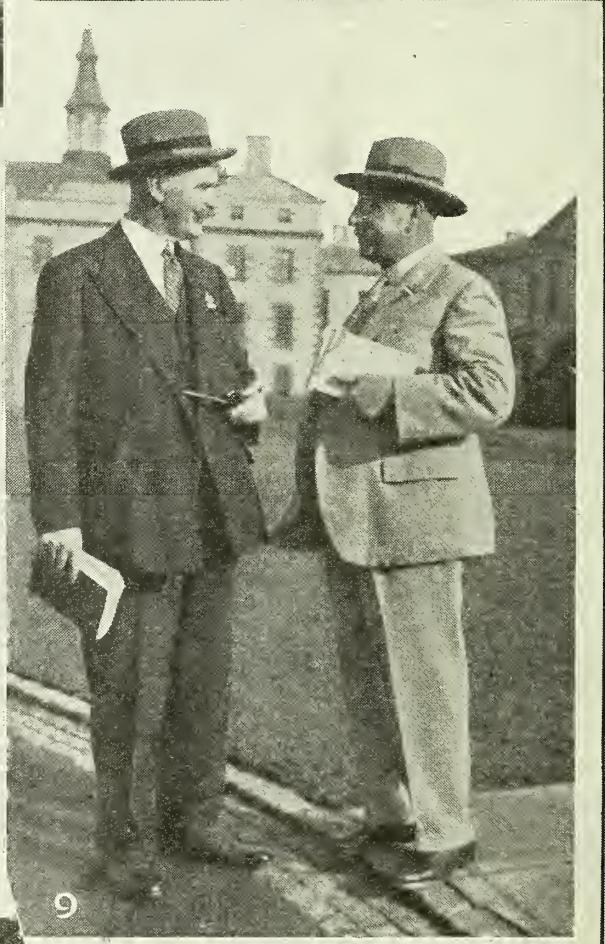
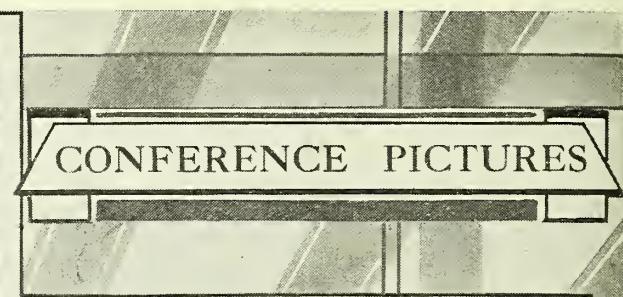
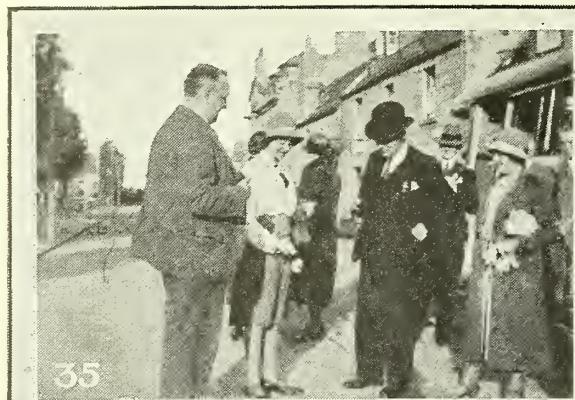
Mr. J. E. CONNOR (president of the Pharmaceutical Society of Northern Ireland) moved acceptance of the invitation.

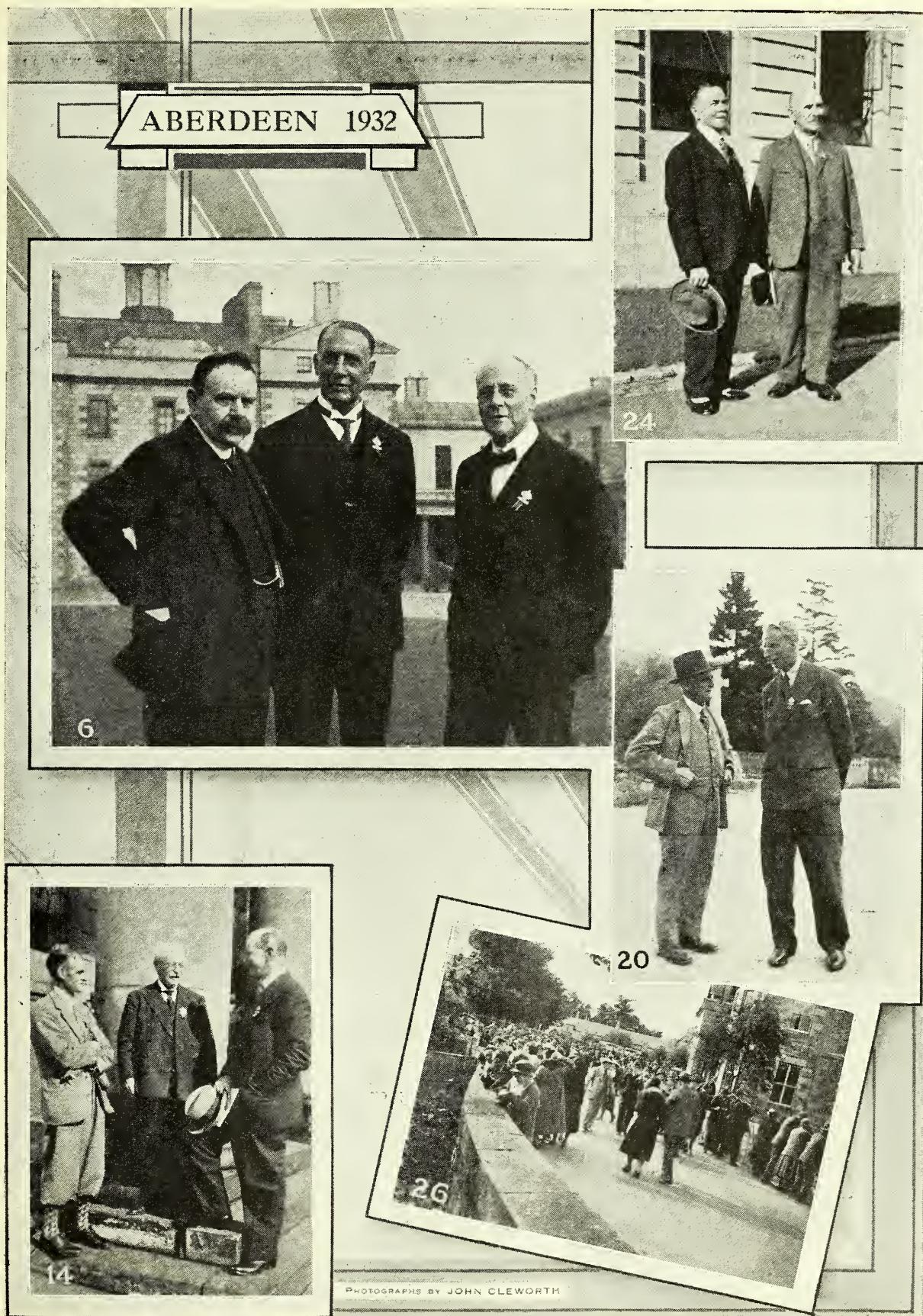
Mr. J. B. MCVITAE (chairman of the Executive of the North British Branch) seconded acceptance of the invitation.

The resolution was unanimously adopted.

ELECTION OF OFFICERS

Mr. P. F. ROWSELL, in proposing the adoption of the election of the officers, paid tribute to the work of Dr. C. H. Hampshire. He mentioned also the excellent manner in which the duties of treasurer had been carried out by Dr. F. W. Crossley Holland, and those of the secretaries by Messrs. C. E. Corfield and G. R. Boyes.





BRITISH PHARMACEUTICAL CONFERENCE · 1932 ·

Mr. A. H. JENKIN (treasurer of the Society) briefly seconded the motion, which was carried unanimously.

PRESENTATION OF BOOKS

The CHAIRMAN then made the customary presentation of books from the Bell and Hills Fund.

Mr. CHARLES SIMPSON acknowledged the gift on behalf of the Aberdeen and North-Eastern Scottish Branch of the Society.

VOTE OF THANKS TO THE CHAIRMAN

Mr. D. LLOYD HOWARD, in moving a vote of thanks

to the chairman, remarked on the excellent way in which Mr. Skinner had carried out his duties during the twelve months which constituted his period of office.

Mr. T. EDWARD LESCHER seconded the vote of thanks, which was carried amid loud applause.

The CHAIRMAN, in acknowledging the vote of thanks, said the Conference had been an extremely successful one. By attaining the position of chairman of that Conference he had reached the highest honour of his career. The chairman then declared the proceedings of the Conference closed.

Social Echoes

It was felt to be singularly appropriate that the proceedings in the Science Section should start off with a paper on "The Analytical Classification of the Fish-Liver Oils." As Mr. Norman Evers, who read the paper, said, "those who had that morning visited the famous fish market would have absorbed the appropriate atmosphere for discussion." One could not help wishing that Mr. John Spencer, head of the well-known Aberdeen firm manufacturing fish oils, had been present, as he could undoubtedly have given the members much food for thought as a result of his years of practical experience. However, it apparently occurred to Dr. E. G. Bryant that the opportunity for extending practical knowledge of the cod-liver oil (and other fish oils) pro-



Photo]

MANCHESTER VISITORS AT CRUDEN BAY

blem was too good to be missed. So he arranged for a party of those particularly interested in the matter to visit the factory of Isaac Spencer & Co. (Aberdeen), Ltd., Albert Quay. There Mr. Tawse, the manager, was subjected to much questioning on various points. The small party (who denied themselves agriculture in order to study fish) included, besides Dr. Bryant, Mr. H. N. Linstead, Mr. I. Scholes, Mr. D. J. Williams, Mr. E. S. Taylor, Mr. Powell, and Mr. Knott.

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Following the taking of the official photograph on Wednesday afternoon, September 14, members set out in saloon coaches for the Rowett Research Institute and Craibstone Experimental Station. Members of the science section and others to the number of 100 went to the former, and the remainder of the Conference visited the latter. At the Rowett Institute the party was received by Dr. J. F. Tocher, one of the governors, who introduced Dr. Orr, the director. When the company assembled Dr. Orr explained how the Institute was founded and how it and the work on nutrition had

been extended. Various munificent donations had assisted this progress, but it appeared that by some ingenious means the governors had invariably achieved the immediate object in view without spending the capital given for that specific purpose. The visitors were greatly desirous to know how these pleasing results were obtained, but such curiosity was not satisfied. At the conclusion of Dr. Orr's extremely interesting remarks the visitors were free to inspect the various laboratories and pursue their own inquiries as to the experiments in progress. Later tea was provided on the lawn and the thanks of the party were conveyed to the governors and Dr. Orr by Mr. Herbert Skinner. In his remarks Mr. Skinner said that quite a lot of the research being conducted at the Institute was covering similar grounds to that being done at the Society's biological laboratories, and he advocated co-operation between the two bodies to prevent this duplication. Dr. Orr briefly replied.

* * * * *

Had the Local Committee been responsible for the weather on Thursday, September 15, the day of the excursion, they could not have chosen better—conditions were ideal. The party started shortly after 10.30 a.m. for Braemar, the long convoy of excellently appointed coaches causing quite a stir in the districts through which it passed. The route was packed with interest, and the "Guide to the Excursions" was much in evidence. Passing over the bridge which spans the Culter burn, the visitors were interested to see the gaily embellished statue of Rob Roy, whose sword, according to one member of the Local Committee, "has been polished for the occasion." After a delightful run the party arrived at Ballater, where a short halt was made, the beautiful Deeside burgh of Banchory having been passed on the way. Some of the most magnificent scenery of the valley of the Dee was thoroughly enjoyed on the road from Ballater to Braemar, where the party stopped for lunch. Great interest was taken, of course, in Crathie Church, and in Balmoral Castle, and many were the attempts to "snap" the latter when breaks in the trees afforded a clear view. At Braemar the company was divided into two groups, and an excellent lunch—with appetites keened up by the glorious mountain air—was thoroughly enjoyed. After lunch an opportunity was offered the visitors to look round Braemar before starting on the homeward journey. Incidentally it would be interesting to know the number of cairngorm stones, plumes and other highland souvenirs—not forgetting the gaily coloured "tam o' shanters"—purchased by Conference visitors on this excursion. Tea was served at Aboyne, after which the convoy continued on the return journey.

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The closing scenes of each Conference are tinged with a certain amount of sadness, but nothing of this was apparent on Thursday evening in the beautiful Beach Hall. After the 500 guests had got over their astonishment and admiration at the fine colour-lighting effects of this latest contribution to Terpsichorean architecture,

BRITISH PHARMACEUTICAL CONFERENCE · 1932 ·

they settled down steadily to a final fling. "Fling" is particularly appropriate in this case, for variation was given to the weary iteration of foxtrot and one-step by the introduction of eightsome reels and Highland flings with the full accompaniment of the appropriate "Hoochs!" After supper, there was an exhibition of Highland dancing by a troupe of boys and girls, and eccentric dancing of a different description by a cabaret party. During the drive to Braemar the origin of the "Reel of Tulloch" and the actual spot where it was first danced were explained to us, and this gave added interest to its rendering by the nimble-footed young Highlanders, who were each presented with a box of chocolates as a gift from the visitors by Miss Hines, the president's daughter.

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Thereafter Mr. Skinner called up from the audience Mrs. Hay, Mrs. Taylor and Mrs. Bryant, then Mr. Hay, Mr. Watt and Mr. Dugan, to each of whom Mrs. Hines handed (with a few gracious words) a memento in appreciation of their fine work. The formal speech of thanks to the committee was charmingly and eloquently made by Mrs. Corfield, and she was ably (and, of course, wittily) seconded by Dr. Crosley Holland. Jokes about the orthodox characteristics against the Abérdonians were numerous throughout the Conference, but Mrs. Corfield's definition of "rigid economy" as a "dead Aberdonian" was probably the freshest. After three hearty cheers for the Committee, the dancing began again and continued well into the "wee sma' oors."

* * * *

On Friday morning most of those who were going to enjoy the Sports Day were astir early. The special train which left Aberdeen at 9.15 a.m. was filled with a merry party, some of whom were looking forward "to a nice quiet day by the sea." On arriving at Ellon Junction about a score of competitors and friends alighted to take part in the bowls competitions (international match—Scotland v. England—and singles). The remainder of the party proceeded to Cruden Bay. A notice had been passed round during the journey that anyone desirous of going to "the journey's end" could do so, entailing a two-miles' walk back to Cruden Bay. Quite a number availed themselves of seeing some of the further beauties of the Scottish coast and walked back. One did hear that two adventurous souls brought their bathing costumes, and enjoyed a dip, much to the envy of the less fortunate.

* * * *

The golf competitors were at first severely handicapped in not having caddies provided. Nevertheless they were gradually got away, most of them managing very well on a trying course. The tennis competitions were not as well patronised as was expected, several of the competitors being unable to play. About a dozen competitors took part in the singles, Miss P. G. Symonds winning the final in the American Tournament against Mr. Rowsell, junior, with 29 out of a possible 32. Lunch was served at Cruden Bay in two sittings, and tea from 4 o'clock. The putting competition was well patronised, the green being very congested at one time. The return journey was made in good time.

* * * *

About 8 p.m. all roads seemed to lead to the Caledonian Hotel, where the final function was held in the form of a smoking concert under the able chairmanship of Mr. Skinner. During the function the following artistes rendered items:—Miss Margaret F. Stewart, Mrs. Bryant, Dr. J. Tait, Mr. J. H. Franklin, Mr. John Forsyth, Mr. Forbes McIntosh and the Albury Quartette. They were thanked by the chairman. During the evening Mr. Skinner called upon Mrs. Keall to present the prizes as follows:—*Golf*: Edmund White trophy, Mr. J. Duncan; prizes for best score, (1) Mr. J. Duncan; (2) Mr. W. J. Moffat; (3) Mr. T. Ashworth. *Ladies' prize*, Mrs. Marr. *Bowls*: England won by 23 shots to 13. The teams were as follows:—Scotland,

Mr. Culbert (skip), Mr. Nisbet, Mr. Ritchie, Mr. Stephen; England, Mr. J. Milner (skip), Mr. H. S. Foster, Mr. M. T. Foster, Mr. J. Reed. In the rink competition Mr. Culbert (skip), Mr. Clubb and Mr. Anderson were the winners after a tie; the skip of the second rink (Mr. Nisbet) was awarded a prize. *Tennis*: *Ladies*, (1) Miss Symonds; (2) Miss Reith; (3) Miss Duncan. *Gentlemen*, Mr. Rowsell, jun. *Putting*: *Ladies*, (1) Mrs. Gray; (2) Mrs. Weiss; (3) Mrs. Cooke. *Gentlemen*, (1) Mr. J. F. McNeal; (2) Mr. J. Judge; (3) Mr. F. G. Wells.

* * * * *

All the prizes, with the exception of the Edmund White trophy and the London challenge cup for bowls, were the gifts of the Local Committee. The chairman expressed the thanks of the prize winners and Conference visitors for their generosity and extreme kindness during the whole of the Conference. A vote of thanks to the chairman was carried with enthusiasm and the singing of "For he's a jolly good fellow." Everyone voted the function a great success and a good finish to a good Conference.



Photo]

[Cleworth

MR. CULBERT (LEFT) CONGRATULATES MR. MILNER

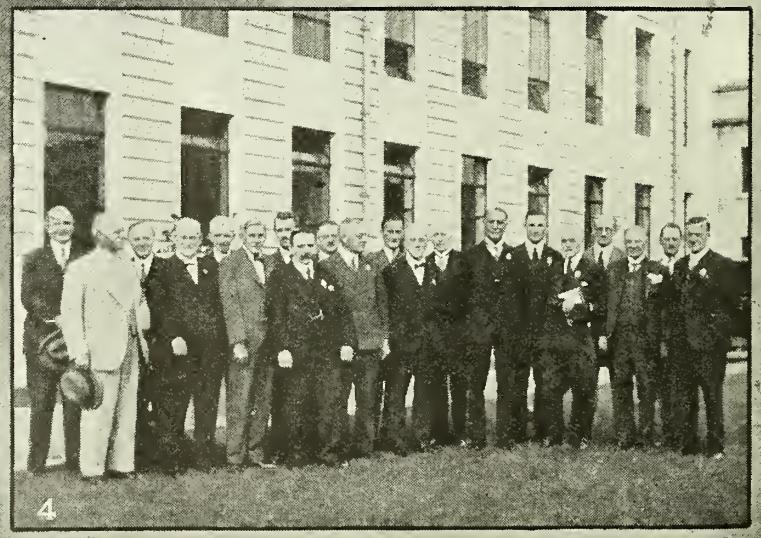
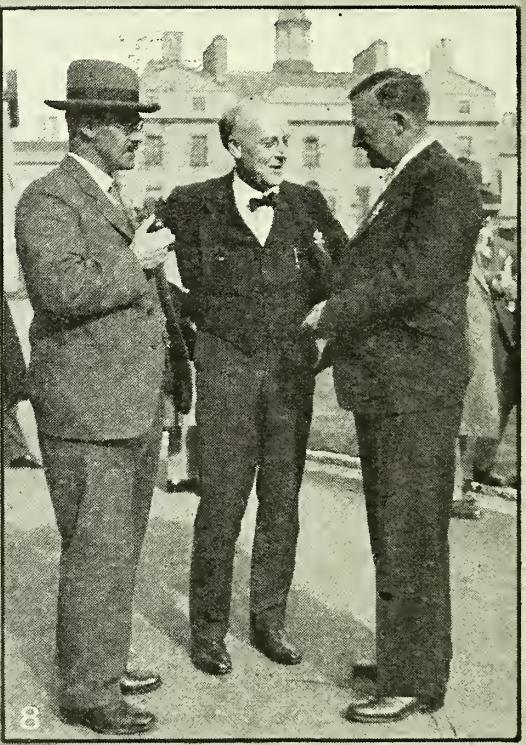
Mr. Cleworth's Photographs

The following is a list of the photographs taken by Mr. John Cleworth in connection with this meeting of the Conference.

1. Planning the Conference banquet. Left to right: Messrs. Farquhar, Hay, Dugan, and two visitors.
2. Seen in Aberdeen. Left to right: Messrs. Currie, McVitae, and MacLennan.
3. Mr. Saville Peck (left) greets Mr. Waring. Centre: Mr. John Keall (vice-president of the Pharmaceutical Society).
4. Chairman, past-chairmen, and other officials of the Conference.
5. Left to right: Messrs. Hardy, F. Browne, Rowsell.
6. Left to right: Messrs. Hay (chairman of Local Executive), Hines (president of the Pharmaceutical Society), Skinner (chairman of the Conference).
7. Entering the MacRobert Hall for the opening session.
8. Three members of the Pharmaceutical Society's Council in the grounds of Robert Gordon's Colleges. Left to right: Messrs. Wells, Skinner, Marns.
9. Messrs. Bennett (left) and Franklin, past-chairmen of the Conference, exchange reminiscences.
10. Starting for Dunnottar Castle.
11. Mrs. Linstead (left) and Mrs. Mackie.
12. Left to right: Dr. J. F. Tocher, Mr. Herbert Skinner, Dr. E. G. Bryant.
13. Messrs. Williams (left) and Wilson.
14. Enjoying an Aberdeen joke. Left to right: Mr. Spence (Orkney), Dr. Coull, Mr. R. R. Bennett.
15. From Northern Ireland. Left to right: Messrs. Kirkpatrick, McBride, Connor, Forrest, Storey.

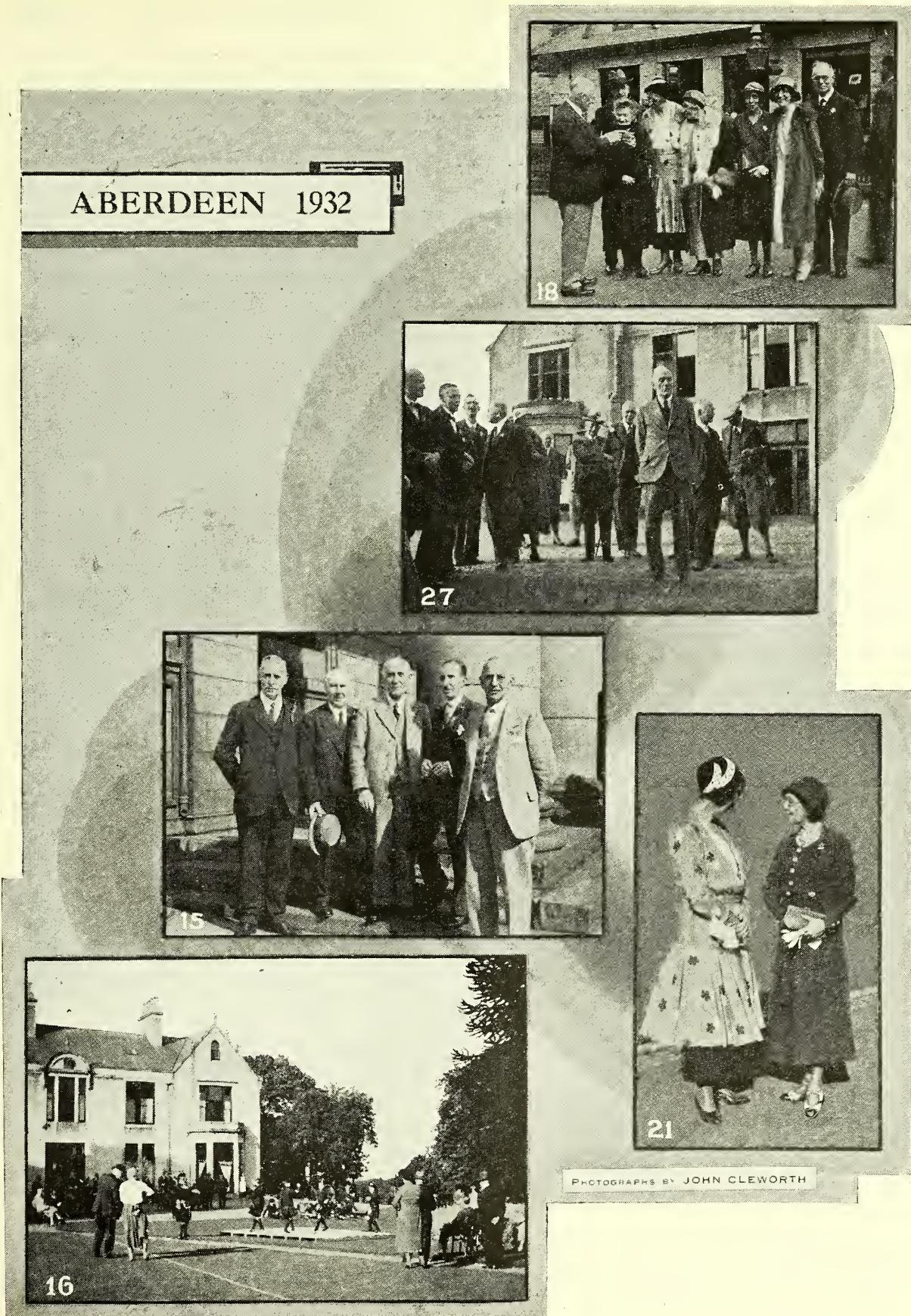


CONFERENCE PICTURES



PHOTOGRAPHS BY JOHN CLEWORTH

ABERDEEN 1932



BRITISH PHARMACEUTICAL CONFERENCE · 1932 ·

16. Scottish pipers and dancers at Craibstone.
 17. Left to right: Messrs. McNeal, J. R. Hill, P. M. Duff.
 18. Mrs. Clark (Braemar) showing Mr. Cleworth's 1908 photograph of her husband's pharmacy to a Conference party.
 19. Left to right: Mr. Mackenzie, Dr. Tocher, Mr. Hay, Mr. R. Smith.
 20. Left to right: Messrs. Dugan (secretary of the Local Executive) and Titterington (Cairo).
 21. Mrs. Franklin (left) and Mrs. Young.
 22. Students at Craibstone.
 23. Left to right: Messrs. Storey, Corfield, Skinner, Titterington, Connor.
 24. Mr. T. Harley (left) and Mr. R. Smith, of Stornoway; the latter arrived by aeroplane.
 25. Mr. Farquhar (left) and a group of visitors at Ballater.
 26. Visitors arriving at Braemar.
 27. Dr. George Smith addressing visitors at Craibstone.
 28. Mr. Hay (left) thanks the Sergeant-Major.
 29. Left to right: Mr. Spence (Orkney), Dr. Coull, Mr. R. R. Bennett.
 30. Starting for Braemar. Left to right: Dr. Coull, Mr. M. K. Watt, Mr. G. H. C. Rowland.
 31. Arriving at Craibstone.
 32. Leaving Dunnottar Castle. Left to right: Mr. W. R. Browne, Mr. T. Harley, Dr. C. Simpson, Mr. J. Jack, Mr. J. Farquhar.

33. Waiting for the official photograph—part of the group.
 34. Motor-coaches arriving at Craibstone.
 35. A Yo-Yo demonstration by Miss Hampshire.
 36. A Trio at Braemar: Mr. R. R. Bennett in centre.
 37. Miss P. G. Symonds, winner of the tennis tournaments, and Mr. H. P. Forbes.
 38. Mr. Morson (left) and Mr. Gamble comparing scores.
 39. Mr. J. H. Franklin (right) and Mr. J. C. Young on the golf course.
 40. Manchester visitors at Cruden Bay.
 41. On the putting green.
 42. At Cruden Bay. Left to right: Messrs. Mitchell, Forsyth, Ross, McCormack.
 43. Mr. Milner (right) is congratulated by Mr. Culbert on winning at bowls.
 44. Visitors at Cruden Bay.
 45. Dr. Coull, Mr. Skinner, and their caddies.
 46. Mr. J. Duncan (right, winners of the Edmund White trophy) and Mr. Marr.
 47. Mr. W. J. Moffett (left) and Mr. T. Ashworth at Cruden Bay.

Those reproduced in this or the preceding issue are indicated by italic type. Copies of the photographs may be obtained at 1s. each (by post, 1s. 2d.) from Mr. John Cleworth, 56 Duncie Street, Oxford Road, Manchester.

Who Were There

The following is the official list of visitors who attended this year's meeting of the Conference:—

| | | | |
|--|---|---|---|
| Abbot, J., and Mrs., Glasgow | Bruce, A. L., Mrs. and Miss, Aberdeen | Dickson, R. J., and Mrs., London | Freke, Mrs., London |
| Abraham, V. H., Caversham | Bryan, D. A., and Mrs., Penmaenmawr | Diggles, Miss M., Levenshulme, Manchester | Fyfe, Miss E., Dundee |
| Acheson, S. E. A., and Mrs., Belfast | Bryant, Dr. E. G., and Mrs., Aberdeen | Dixon, W. L., London | Gamble, F. W., and Mrs., London |
| Allen, J. W., London | Bull, B. A., West Bridgford | Dobie, Miss E., Oxtongue | Gaze, W. T., and Miss H. J., London |
| Anderson, Mr. and Mrs., Aberdeen | Bullions, Mrs. and Miss, Felling-on-Tyne | Dobson, J., and Mrs., Hounslow | Gibb, J. P., Edinburgh |
| Anderson, D., London | Caine, J. C., and Mrs., Birkenhead | Dobson, P., and Mrs., Leeds | Gibson, S., and Mrs., Belfast |
| Annan, Mrs. R. H., Lochee | Caldwell, J., Aberdeen | Duff, P. M., and Mrs., Glasgow | Gilleghan, H., and Mrs., Leeds |
| Armitage, N. M., and Mrs., Leeds | Cameron, J. M., Braintree | Dugan, H. M., and Mrs., Aberdeen | Gilmour, J. P., and Miss A., London |
| Arnold, W. R. B., and Mrs., Birmingham | Carlton, Miss E. A., Lochee | Duncan, J., Mrs. and Miss, New Brighton | Gough, J. H., and Mrs., Leeds |
| Arthur, H. P., Glasgow | Carrie, Mr. and Mrs., Liverpool | Duncan, Miss J., West Didsbury | Gower, J., Llanelli |
| Ashworth, T., and Mrs., Liverpool | Carter, J. C., and Mrs., London | Egerton, W. L., Milton | Graham, R., and Mrs., Glasgow |
| Aspell, J., and Mrs., Bath | Carus, Mrs. H., West Lothian | Elder, Mr. and Mrs., Aberdeen | Gray, W., London |
| Atkinson, J. W., and Mrs., Birmingham | Caunt, J. W., and Mrs., King- ton | England, H., Harrogate | Gray, Miss Joyce, Dunstable |
| Aves, J. W., and Mrs., Prest- wick | Challinor, S. G., and Mrs., Fenton | Evans, G. W., London | Gray, A., and Mrs., Aberdeen |
| Badger, S. S., and Mrs., Belfast | Chalmers, W., and Mrs., London | Evers, N., London | Griffiths, C. H., Cheltenham |
| Badham, J., Huddersfield | Chapman, H. E., London | Falconer, W., and Miss, Col- chester | Guthrie, T., and Mrs., Glasgow |
| Ballard, Miss Phyllis, Aberyst- wyth | Claremont, Miss H. E., London | Falding, W. B., London | Hall, Mrs., Newcastle-on-Tyne |
| Bard, Mrs. P., Aberdeen | Clarke, Miss M. J., London | Farquhar, D. G., Strichen | Hallett, Mr. and Mrs., Bath |
| Barker, R. H., Windermere | Cleworth, J., and Mrs., Man- chester | Farquhar, J., Mrs. and Miss, Aberdeen | Hampshire, Dr. C. H., Mrs. and Miss, Northwood |
| Beardsley, W. J., and Mrs., Woodford Green | Clubb, W. H., Liverpool | Farquhar, R. T., Insch | Hardy, T., Maryport |
| Beattie, G. A., Mrs., Miss and Miss V. Cheam | Connor, J. E., Newry | Ferrey, E. J. W., and Mrs., Cheadle Hulme | Harley, D., and Mrs., Joppa, Midlothian |
| Bennett, R. R., Mrs. and Miss, Harrow | Cooke, Mrs. E. W., and Miss J., Wirral | Ferriday, A. J., and Mrs., Liverpool | Harley, T., Perth |
| Berry, H., Birmingham | Cornfield, C. E., and Mrs., New Barnet | Ferrier, Miss M., Dundee | Hart, Miss S., Cleator Moor |
| Boag, Miss M. G., Edinburgh | Coull, Dr. G., Mrs. and Miss B., Leith | Findlay, Miss C. I., and Miss R. S., Aberdeen | Harvey, Miss F., Kenton |
| Bolton, Miss Muriel, Hull | Coutts, J., Glasgow | Fleming, T. H., and Mrs., Newcastle-on-Tyne | Haselgrave, L., Levenshulme |
| Bowen, F. T., London | Craighead, Mrs. P. M., Aber- deen | Forbes, H., Aberdeen | Hay, W. F., and Mrs., Aber- deen |
| Boyes, G. R., and Mrs., London | Crania, J., Aberdeen | Forbes, W. B., and Mrs., Perth | Hay, J. J. G., and Mrs., London |
| Boyes, Miss L. M., London | Crombie, J., and Mrs., Bearded | Forbes, Mrs., Balhousie, Perth | Hayes, Mr. and Mrs., London |
| Brackenbury, Miss O. E., Middlesbrough | Crossling, F., and Mrs., Aber- deen | Ford, Miss and Miss B., Kirriemuir | Hayes, Miss D., London |
| Brew, Miss Neita, Edinburgh | Cruickshank, Provost G. M., and Mrs., Turriff | Forrest, S. H., Bangor | Heddle, J. S. B., and Mrs., Edinburgh |
| Brewis, E. T., London | Culbert, W. S., Mrs. and Miss B., Airdrie | Forrester, G. P., London | Hendry, A. W., and Mrs., Blantyre |
| Brindle, H., and Mrs., Manchester | Currie, J., Glasgow | Forsyth, J., and Mrs., Aber- deen | Hendry, W., Aberdeen |
| Brooks, L. M., and Mrs., London | Darling, D. W., Southsea | Forsyth, J. M., Aberdeen | Hewitt, C., and Mrs., Sheffield |
| Brown, Miss, Aberdeen | Davies, D. S., Carmarthen | Foster, H. S., and Mrs., Car- shalton | Hill, J. R., Edinburgh |
| Brown, Mrs. W. L., and Miss, Giffnock, Glasgow | Deacon, W., Bridgewater | Foster, T. M., Cullompton | Hill, Mr. and Mrs., Spenny- moor |
| Brown, W. R., and Mrs., Giff- nock, Glasgow | Deane, H., Sudbury | Fouracre, R., London | Hines, F. G., Mrs. and Miss M., Feltham |
| Browne, E. N., and Mrs., Morden | Dey, H., Aberdeen | Fox, C. W. N., London | Hirst, J. L., Liverpool |
| Browne, F., and Mrs., London | Diack, Miss E., Aberdeen | Franklin, J. H., and Mrs., Manchester | Hirst, H. M., and Mrs., Scar- borough |
| Bruce, A., Culz | Dick, A. A., Bellshill | Fraser, Miss J. K., and Miss Cambuslang | Hohson, C. W., Millhouses, Sheffield |

BRITISH PHARMACEUTICAL CONFERENCE · 1932 ·

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|---|--|--|---|
| Howard, D. L., Ilford | Manton, B. E., and Mrs., Crayford | Proctor, E. A., and Mrs., Rottingdean | Sutherland, Mrs., Alexandria, Dumbartonshire |
| Howes, H., and Mrs., Wolverhampton | Marchant, D., Eastbourne | Purse, F., Leicester | Swanston, W. E., London |
| Humphreys, W., and Mrs., Liverpool | Marns, T., and Mrs., London | Rae, J., Liverpool | Sym, Miss, Edinburgh |
| Hunter, M. V., Inveresk | Marr, A. W. H., and Mrs., Rosehearty | Ramsay, J. H., and Mrs., Glasgow | Symonds, J. A., and Miss P. G., Ipswich |
| Inglis, F., Bramhall | Matthew, J. E., and Mrs., Sheffield | Rankine, I. G., and Mrs., London | Tait, Dr. J., Edinburgh |
| Jack, J., and Mrs., Arbroath | Meldrum, Mr., Mrs. M. and Mr. M. Jun., Ayr | Reid, W., Cupar, Fife | Taylor, C., and Mrs., Accrington |
| Jackson, R. E., and Mrs., North Shields | Melhuish, A. R., and Mrs., London | Reith, Mrs. and Miss H., Cults | Taylor, S., Derby |
| Jenkin, A. H., London | Michie, C. A., Aberdeen | Ridley, T. M., Carlisle | Taylor, Provost W. S., and Mrs., Inverurie |
| Jenkins, Miss E. M., London | Michie, J., and Mrs., Bucksburn | Ritchie, A. W., and Mrs., Montrose | Tharratt, G., and Mrs., Liverpool |
| Jenkins, Miss E. M., Dundee | Milber, Miss A. M., Cheltenham | Roberts, Miss I., Manchester | Thomas, H. W., Glasgow |
| Johnson, E. H., Glasgow | Miller, T., Hale | Robertson, L., Aberdeen | Thomson, J. A., and Mrs., London |
| Johnson, J., Aberdeen | Miller, H., Cheltenham | Robinson, Miss E. W., Dundee | Titterington, E., London |
| Jones, A. J., Liverpool | Milne, G. R., Glasgow | Robinson, R., Cardiff | Tocher, G. A., and Mrs., London |
| Jones, H. H., and Mrs., Liverpool | Milne, J., Aberdeen | Roper, F. R., Hounslow | Tocher, Dr. J. F., Aberdeen |
| Jones, Miss M. A., Manchester | Milner, J., Dundee | Ross, M. C., and Mrs., Aberdeen | Trick, W. B., New Barnet |
| Jones, S. C., and Mrs., London | Mitchell, A. M., and Mrs., Aberdeen | Rothwell, Miss S., Wirral | Tristram, W. J., and Mrs., Liverpool |
| Jones, T. W., London | Mitchell, W. G., and Mrs., Aberdeen | Rowland, E. O., London | Tucker, W. T., and Mrs., London |
| Judge, J., and Mrs., Wakefield | Moffat, W. J., and Mrs., Glasgow | Rowland, G. H. C., and Mrs., Edinburgh | Twigg, J. G., and Mrs., Withernsea |
| Keall, J., and Mrs., London | Mollison, Mr. and Mrs., Cathcart | Rowse, P. D., and Mrs., Exmouth | Tyler, B., Axminster |
| Kelby, Miss, Culter | Morgan, A. W., and Mrs. E. A., Bedford | Rowse, P. F., and Mrs., Exmouth | Walker, J., Ellon |
| Kindness, Miss J., Cheshunt | Morley, H. T., Stockport | Scholes, W. J., Eccles | Wallace, A. P., and Mrs., Aberdeen |
| Kirkpatrick, D. L., Belfast | Morson, L. J., London | Seaton, O. C., and Mrs., Grimsby | Walmsley, J. R., Wilmslow |
| Knott, W., London | Mortimer, A., London | Shattock, Miss M., Lancaster | Waring, E. S., Nottingham |
| Knox-Mawer, G. N., and Mrs., Wrexham | Mumford, H. A., London | Shearer, J. A., Aberdeen | Warren, P. H., and Mrs., St. Albans |
| Lancaster, J., and Mrs., Leeds | Mumford, H. G., and Mrs., London | Shepherd, A., London | Watson, Miss M. W., Cleator Moor |
| Lander, N., Huddersfield | Mumford, R. G., and Miss C., Hove | Shepherd, F. W., and Mrs., Nottingham | Watt, M. K., and Mrs., Aberdeen |
| Lawrence, A., and Mrs., Liverpool | Murray, R. M., and Mrs., Linthorpe | Shirreffs, Mrs. M. T., Aberdeen | Watt, W., Aberdeen |
| Lescher, T. E., Liverpool | Mutch, J. G., and Mrs., Aberdeen | Shirtliff, W. E. D., and Mrs., London | Weir, A. S., and Mrs., Kemnay |
| Lester, W. H., and Mrs., Nuneaton | Neville, R. A., Oxford | Simmons, E. H., Salford | Weiss, F. G., and Mrs., London |
| Lewis, D., and Miss, Manchester | Nisbet, P., Leith | Simon, J. F., and Mrs., Leeds | Wells, F. G., London |
| Linstead, H. N., and Mrs., London | Noble, C. A., and Mrs., Edgware | Simpson, C., and Mrs., Aberdeen | Wells, W., and Mrs., London |
| Lloyd, H., Merthyr Tydfil | Paterson, J., London | Skinner, H., London | Whelan, T. E., Liverpool |
| Lockyer, J. E., and Mrs., Deptford | Peck, E. S., Cambridge | Skunes, E., London | Williams, D. J., and Mrs., Bath |
| Low, Miss J., Shotley Bridge | Pennie, W., and Mrs., Aberdeen | Small, Miss I., Perth | Williams, K. E. W., Winchester |
| Lynch, Miss C. K., Hastings | Petrie, Miss J. J., Inverness | Smith, A. N., Nottingham | Wilson, A., Stepps |
| McBride, J., Colchester | Phillips, I. R. M., Axminster | Smith, F., and Mrs., Birmingham | Wilson, T., Mrs., Miss Z., and Miss J., Burntisland |
| McConnach, J., Aberdeen | Phillips, S., Wolverhampton | Smith, J. M., and Mrs., Alexandria, Dumbartonshire | Wilson, W., Bradford |
| Mackay, A., London | Pinchin, W. J., and Mrs., London | Smith, R., Stornoway | Wilson, Mrs., Nottingham |
| McBride, A. C., Armagh | Plowright, J., Brighton | Spence, H., Stromness | Wilson, W. W., Glasgow |
| McLaren, A. B., Glasgow | Powell, A. D., and Mrs., Nottingham | Spence, J., and Mrs., Aberdeen | Wood, J. W., Manchester |
| McNeal, J. F., Amersham | Price, E. G., and Mrs., London | Stephenson, W. T., and Mrs., Sutton | Wright, Miss M., Egremont |
| McVitae, J. B., Glasgow | Prior, J. S., Stamford | Stiles, P., and Mrs., Market Harborough | Young, A. E., Mrs. and Miss, Leicester |
| MacKenzie, T., Inverness | | Storey, F., and Mrs., Belfast | Young, J. C., and Mrs., London |
| Mackie, A., Culter | | Strachan, A. L., and Mrs., Aberdeen | |
| Mackie, H. B., and Mrs., Fetterangus | | | |
| Macswiney, A., and Mrs., Glasgow | | | |
| Main, W., and Mrs., London | | | |
| Mallinson, G. A., London | | | |
| Mann, E. W., and Mrs., Birmingham | | | |

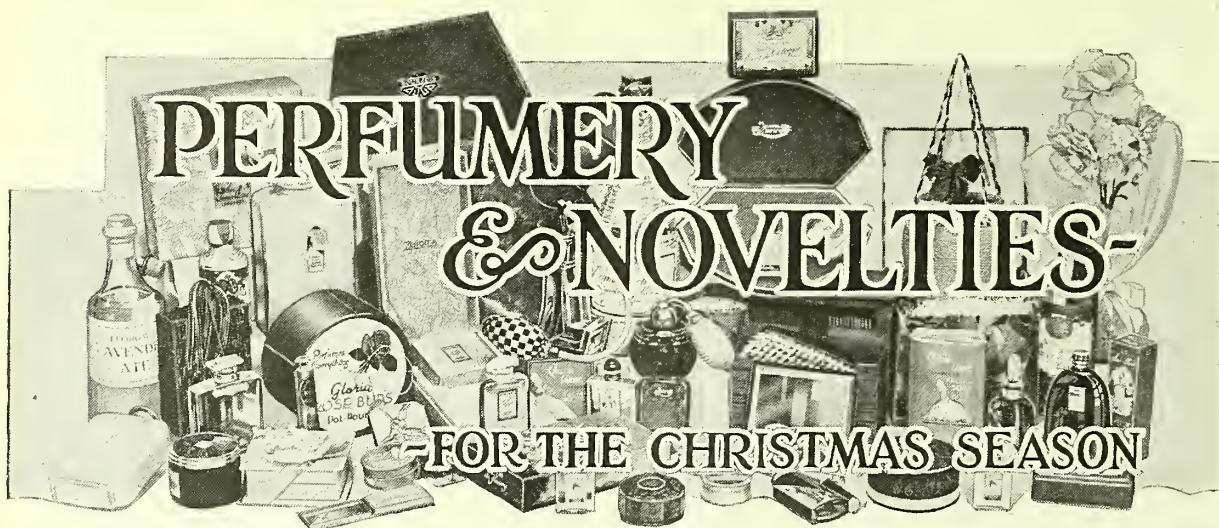
Association Meetings

Birmingham. — The annual general meeting of the Birmingham Pharmaceutical Association was held on September 12. The annual report states, *inter alia*, that there are at present on the register 106 Birmingham retail employer members, ninety-seven other Birmingham members, twenty-eight ex-Birmingham members, seventy-six associates, one honorary member and seven subscribing firms. The balance-sheet shows a balance of £81. Meetings of the Birmingham and District Branch of the Society and the Birmingham Branch of the National Pharmaceutical Union were held on the same evening.

Portsmouth. — The annual meeting of the Portsmouth Pharmacists' Association was held on September 7, Mr. F. Hemming presiding in the absence of the president (Mr. J. W. Rogers). The financial statement presented by the treasurer (Mr. G. W. Darling), showed an increased balance in hand of £67, and the twenty-fourth annual report, submitted by the secretary (Mr. F. H. Ruoff), was an interesting record of useful work. Mr. J. W. Rogers was re-elected President for a second year of office, with Mr. Hemming as Vice-President,

Mr. Darling as *Treasurer* and Mr. Ruoff as *Secretary*. Messrs. J. E. Eyres and J. W. Rhodes were appointed *Auditors*, and the following were also elected:—*General Committee*: Messrs. W. R. Atterbury, W. H. Bown, W. L. Egerton, C. Fry, A. W. Goddard, E. D. Lewis, H. A. Moody and W. L. B. Murray, with the officers. *Trade Section Committee*: Messrs. W. R. Atterbury, W. H. Bown, W. L. Egerton, C. Fry, M. L. Gregory, T. A. Johnson, J. W. Rhodes, J. W. Rogers and F. H. Ruoff. It was decided to give £5 5s. to the Benevolent Fund of the Pharmaceutical Society and £2 2s. to the Orphan Fund.

CHANGES IN HARLEY STREET. — "The 'Medical Directory' for 1882 gives sixty-one names in Harley Street and fifty-five names in Wimpole Street, Upper Wimpole Street, and Devonshire Place (in the last one only), which run parallel to and are a little longer than Harley Street. . . . In the 'Medical Directory' of 1932 the corresponding numbers are 750 and 375; an average of five addresses to each of the 152 houses in Harley Street. . . . Doorplates, like mushrooms, are always springing up with bright hopes; this was notably the case after the war, when surgical experience and a gratuity rendered the gratification of ambition in Harley Street possible, at least for a time."—Sir Humphry Rolleston in the Bolingbroke Lecture.



WE take the opportunity, in the following pages, of presenting to our readers particulars of a comprehensive range of perfumery and novelties for the coming festive season. There appears to be, this year, a greater note of optimism regarding Christmas trade, and to judge by the number of new lines improved business is expected. We would call our readers' attention, also, to the firms advertising in the special Christmas trade supplement elsewhere in this issue. Their number, the greatest for some years, confirms our impression of better business to come.

The Abietsan Manufacturing Co., Ltd.

Concordia Works, Managers Street, London, E.14, are the makers of Alpid pine bath salts, a sample of which we illustrate together with an attractive showcard. This product is made from good quality hard crystals which are evenly graded for size; the perfume is genuine pine-needle oil and high quality essential oils. The container is a well-designed metal canister in four colours, the metal, of course, ensuring good keeping qualities. Showcards are available free of charge.

The Aerograph Co., Ltd.

No Christmas stock would be considered complete perhaps without an adequate selection of perfume sprays. We illustrate on another page a number of examples from the De Vilbiss range, supplied by The Aerograph Co., Ltd., Lower Sydenham, London, S.E.26, sole distributors of De Vilbiss products in the United Kingdom. These sprays are of the high quality associated with the name of their maker, and the selection includes models in a range of colours as well as in crystal glass. Each spray is supplied in a neat carton suitable for presentation. The wide range (our illustration shows only a few) includes models designed to suit every taste and pocket. Perfume sprays have become a necessary toilet accessory; the De Vilbiss range is worth noting.

The Anzora Perfumery Co., Ltd.

Three useful sales aids have been forwarded to us by The Anzora Perfumery Co., Ltd., 28 Willesden Lane, London, N.W.6, in the form of attractive showcards. An important point in connection with this material is its appropriate size for use either in the window or on the counter. The cards, together with a few of the company's products, make a neat and compelling display. The familiar Anzora pack, it is interesting to note, has been improved by the introduction of a reseal closure, which is extremely simple yet effective.

J. & E. Atkinson, Ltd.,

Eonia Works, Southwark Park Road, London, S.E.16, have succeeded in creating an original design—no easy task—for their new Christmas cases, in a colour scheme of silver, black and red. Present-day needs have been studied in arriving at the selling prices, which are quite moderate. A few of these goods are shown in one of our illustrations. Messrs. Atkinson's Nonsuch series now includes No. 24 perfume, for which many inquiries have been made since the introduction of No. 24 powder. A booklet entitled "An Anthology of Perfumes" has been compiled in connection with the Nonsuch series, much ingenuity being shown in searching out poetical references to gardens and flowers.



A SELECTION FROM A. BOURJOIS ET CIE, LTD.

Hunter Beattie,

25 Monteith Row, Glasgow, have included in a selection of their well-known lines a sample of shaving soap which is enclosed in a new container fitted with Ryden's patent. By means of this attachment the stick can be pressed up from the bottom, but cannot be pressed down, so that the soap is held in any desired position.

The soap adheres to the plunger and can be used to the last vestige—the foil being removed from the bottom of the stick. The container is made of bakelite.

Arthur Berton, Ltd.

The outstanding feature of the selection of gifts sent to us by Arthur Berton, Ltd., is a

*EXAMPLES
FROM
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among other styles, in coloured leather pochettes; another Delavelle product is Velmay powder cream, in a mirror backed packing, at a popular price, with display outer. Mention must also be made of Floroids, consisting of a set of six bottles of assorted floral perfumes in a display box; these can also be had in a larger size individually boxed. Lastly, the South Wind series embodies a delicate perfume in a distinctive pack.

A. Bourjois et Cie, Ltd.

4 Water Lane, Blackfriars, London, E.C.4, are past masters in the art of coffret production, and this year they have excelled themselves by the creation of some very excellent models. No. X 15/32, which forms the centrepiece of our illustration, is a beautifully made coffret; the case is decorated with the familiar Evening in Paris blue and silver; the inside lid forms a substantial mirror. The case contains vanishing cream, face powder (loose and compact), perfume and eau de Cologne, mounted on a base of silver-grey material. A smaller model, also illustrated, is available containing powder (loose and compact), perfume and lipstick. The Evening in Paris range contains, of course, numerous other examples of high-class perfumery. No less popular are the Ashes of Roses and Ashes of Violets series. These are presented in a wide range of combinations, specially made for the Christmas trade, and, as with Evening in Paris, should prove ready and profitable sellers.

T. F. Bristow & Co., Ltd.,

have sent us four lines which, in their opinion, will be popular sellers this Christmas season. On examination of these coffrets

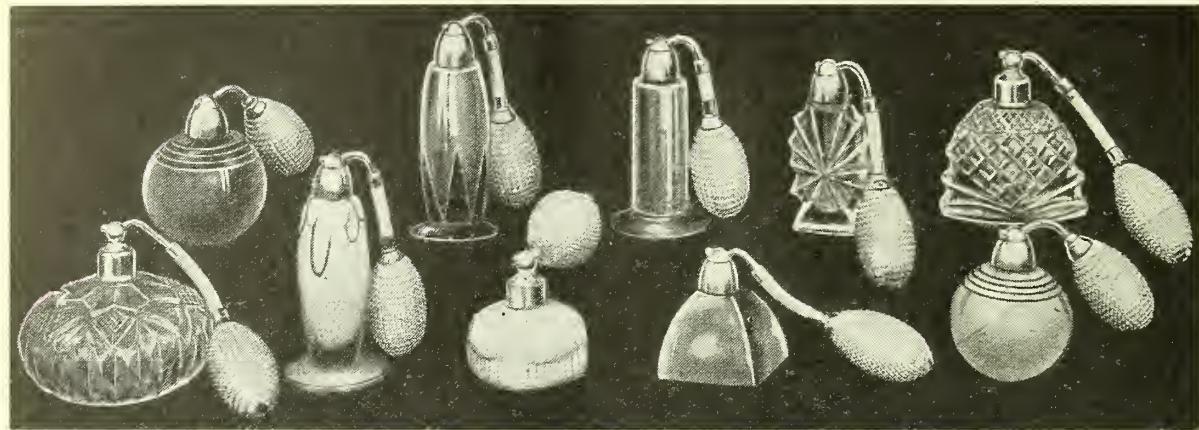
range of excellent perfume sprays. As our illustration shows, these sprays are designed on modern lines with particularly attractive tasselled bulbs. The bottles are made of fine quality glass, some tinted and others artistically decorated. Most of the mounts are chromium plated, and are guaranteed to be untarnishable; model 600/90, however, is fitted with a screw-on Galalith mount in black and pale blue. We illustrate also two powder sprays, the use of which is described as the latest method of spraying toilet powder. Of these, model 980/1 has a globular tinted glass bottle, a chromium-plated screw mount with a silk tube and netted bulb; 980/5 has a heavy pyramid shaped hand-decorated bottle, chromium mount and silk netted oval bulb. The selection includes also two powder bowls, one of English ware decorated in a bright design in cellulose enamel, and the other of heavy crystal glass, together with a useful gentlemen's travelling brush set. The last-named gift consists of a natural ebony-backed military brush, a good quality shell comb and mirror, fitted in a solid leather case.

Gustav Boehm,

38 Moreland Street, Goswell Road, London, E.C.1, have sent us a large selection of coffrets and other goods for Christmas trade. Attention is drawn to the Lily of the Valley series, a very reasonably priced coffret being No. 2111. Another, 2091, strikes a modern note, while 2020 consists of a dainty fan-shaped bottle in box. Delavelle's eau-de-Cologne and lavender water are supplied,

*RANGE
OF ARTHUR
BERTON, LTD.*

we are inclined to agree with Messrs. Bristow that they will doubtless appeal to the public taste. The cases are of substantial construction and have been manufactured to artistic design; the colours are such as lend themselves to attractive display and, of course, the prices are reasonable. Set No. X72 is a smart gift case for men containing brilliantine, shaving stick in Bristolite case and Denthydol tooth paste; No. X242 is a lady's coffret containing two Bristolite cases of beauty cream (day and night), two tablets of face cream soap, and one bottle of hair-setting lotion; X42 is one of the many English wallflower coffrets, and comprises one dozen bags of bath crystals, one tablet



DISTINCTIVE DE VILBISS PERFUME SPRAYS: THE AEROGRAPH CO., LTD.

of bath soap, and two boxes of shampoo powders; X452 contains a stoppered bottle of perfume, vanishing cream in a satin-finished jar and face powder in a smart Bristolite case. We were particularly impressed with the packing of Bristow's face powder in the last-mentioned coffret; Bristolite seems to be an ideal substance for toilet containers.

H. Bronnley & Co., Ltd.

have succeeded this year in producing an excellent range of Christmas lines which have been prepared and packed with elegance and taste. An innovation is to be found in a range of bath salt vases, each one of which is a good example of the English potter's art. For the purpose of illustration we have selected two, Nos. 3 and 5, which give an excellent idea of the designs. The selling point of these vases, apart from the attraction of colour and style, is, of course, their subsequent usefulness. The price is reasonable and the selection adequate. We illustrate also a useful gift in lemon set No. 21, which contains in a neat box two purse tubes of Bronnley's day cream, made with lemon, one tablet of Lemonette soap, one jar of bath crystals, and one small jar of Bronnley's night cream, also made with lemon. This coffret is backed by an extensive advertising campaign for Bronnley's cream, and should, at its popular price, prove a ready seller. Toiletries de luxe set No. 19 contains one bottle of bath crystals; this useful gift is available in verbena, lavender, eau de



A PRODUCT OF THE ABIETSAN MANUFACTURING CO., LTD.

ATTRACTIVE GIFTS BY J. & E. ATKINSON, LTD.



Cologne, rose, violet and jasmin, each odour being packed in an appropriately coloured box. The popularity of soap and perfume sets is maintained from year to year, and in set No. 20, Messrs. Bronnley have succeeded in producing a line which cannot fail to meet the demand for a low priced gift of the finest quality. A description of Messrs. Bronnley's products would be incomplete perhaps without some reference to bath soap; gift No. 1015/ consists of one tablet of Colossal bath soap packed in an artistic box in verbena, English pine and English fern. This makes an attractive present at a low cost. For gentlemen, set No. 5 meets the case; this contains one bottle of after-shave lotion and one Viotto de Luxe shaving bowl, the latter, of course, being refillable. We are informed by

importance in the dressing room. The smooth rounded lip is free from rough cutting edges, so that every portion of the cream is readily accessible. The nursery and toilet powder is neatly packed and extensively advertised.

Calmon & Neate, Ltd.

8 Gerrard Street, London, W.1, call attention to recent developments in the Tangee series and in La Reine des Crèmes, which is now being made in England. The Tangee lipstick is now larger than formerly. The company has introduced a sixpenny Tangee compact and also a sixpenny Tangee face powder to go with the Tangee midget lipstick, and these are proving very popular.



MODERN PACKS BY GUSTAV BOEHM

Messrs. Bronnley that their well-known perfumery series, Blue Skies, is being completely modernised in a striking and original pack.

Butler & Crispe,

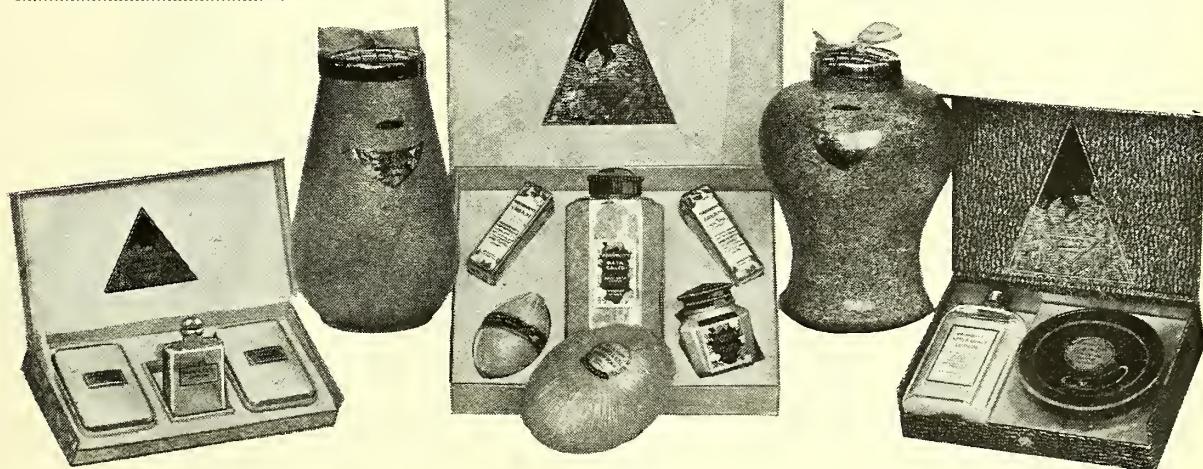
80 Clerkenwell Road, London, E.C.1, have sent us samples of Ninona cold cream and Touzeau Saundar's nursery and toilet powder. The former line can be used generally as a toilet cream, but is specially recommended for theatrical purposes. The container is easily opened and closed even with greasy hands, a point of some

The County Perfumery Co.,

Bradford Street, Birmingham, who are very well known as the makers of Brylcreem, have added to their products an interesting line in 505 eau de Cologne. This perfume, which we illustrate together with an appropriate showcard, shows a good profit and, we understand, a handsome spray, together with a large bottle, are given free with £2 orders. In connection with Brylcreem, we illustrate a new chromium-plated pump which, on pressing the plunger, delivers the correct quantity. The pump is inexpensive and will last indefinitely.

A NEAT DISPLAY FROM THE RANGE —

— OF H. BRONNLEY & CO., LTD.




A. B. Curtis,

6 Ludgate Circus Buildings, Ludgate Circus, London, E.C.4, has produced for the 1932 Christmas season an extensive range of popular priced "True to Flower" perfumes, embracing lily of the valley, jasmin, violet, lavender, lilac, red rose, jockey club, sweet pea, chypre, bouquet and carnation; the last named is excellent and lasting, in fact, the whole series compare favourably with many of the high priced floral perfumes. There are many grades of eau de Cologne and lavender water for both small and large buyers. All perfumes and toilet waters are also sold in bulk at competitive prices for customers who prefer to pack their own bottles. Fancy goods and an exclusive range of low-priced perfume sprays are also available.

Cussons, Sons & Co., Ltd.,

Kersal Vale Works, Manchester, have shown great enterprise in devising new decorative schemes for the coming season, some of these have been assembled in one of our

THE COUNTY
PERFUMERY
CO.: A NEAT
SHOWCARD
FOR 50s EAU DE
COLOGNE AND

(RIGHT)
BRYLCREEM
FITTED WITH
NEW PUMP

illustrations. The element of colour (not visible, of course, in monochrome) is also an important feature, and lends additional distinction to these artistic containers for perfume, bath salts and other toilet products. These goods should command a ready sale wherever they are shown. We have also received from the same manufacturers a range of their new lavender series, comprising complexion, talcum and bath powders (Nos. 4080, 4168, 4169), hair creams (5086, 5087), brilliantine (5084) setting lotion, toilet soap (1103) shaving stick (1051), solid brilliantine (5088), smelling-salts (5090) and bath cube (4081).

J. C. & J. Field, Ltd.,

Lambeth, London, S.E.1, draw attention to a very excellent range of lavender toilet preparations. The retail prices of these lines are low but, as Messrs. Field point out, they touch a new market; the quality, of course, is good, and this fact, together with the extensive publicity continually in progress, makes Field's lavender products well worthy of the chemist's consideration.

D. & W. Gibbs, Ltd.,

City Soap Works, Wapping, London, E.1, have prepared for the Christmas trade a neat gift (illustrated elsewhere) in the form of a case containing one Gibbs' shaving bowl and a refill. The case is free of charge so that no loss can be incurred on unsold sets.

John Gosnell & Co., Ltd.,

211 Blackfriars Road, London, S.E.1, market neat ranges of eau de Cologne and lavender products which should appeal to lovers of this type of perfume. Society eau de Cologne and Society eau de Cologne soap are elegantly packed, as shown in our illustration, while the lavender water products have a decidedly distinctive character.

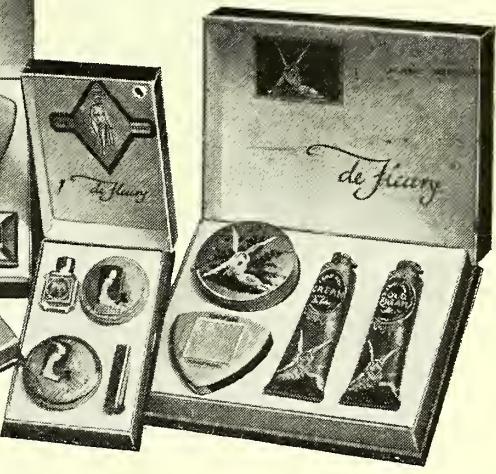
Hirst Brooke & Hirst, Ltd.,

in response to our request for particulars of their Christmas lines, have sent us something not only attractive but extremely useful in the shape of a series of



PLEASING GIFTS FROM
CUSSONS, SONS & CO., LTD.



A SELECTION OF COFFRETS
FROM THE——COMPREHENSIVE RANGE OF
PARFUMERIE DE FLEURY

rubber hot water bottles. The four models which we have illustrated comprise the Caloric, Radium, Cosytoes (all supplied in assorted colours), and the Solace; the last named is a fabric reinforced bottle which is guaranteed for two years; it is available in drab and red. A chemists' stock contains no more appropriate gift than a rubber hot water bottle, and this series seems to meet the demand for good quality products at reasonable prices.

A COMBINATION SET BY
D. & W. GIBBS, LTD.

R. Hovenden & Sons, Ltd.,

29 Berners Street, London, W.1, supply such a wide range of Christmas goods that selection for description becomes difficult. Glancing through the lists before us we notice some excellent examples of eau de Cologne in wickers, decanters and sprinkler bottles; lavender water is similarly packed. We notice also a good selection of bath salts in various packs, including goldfish bowl, sugar bowl, celery vase, and jugs. Many elegantly presented coffrets are available as well as toilet and bath soaps to suit every taste.

Marlborough & Co., Ltd.,

491 Liverpool Road, London, N.7, manufacturers of the Queen Anne lavender series, have brought out a facial powder and a talcum powder of very smooth texture. These, with double-strength bath crystals and a superfatted facial soap, are used in the make up of an attractive range of coffrets retailing from 1s. to 10s. 6d. each. No apparent charge is made for the boxing, so that if after the season is over stock is left

on hand, the retailer can break up the package without any loss. Another excellent "Queen Anne" lavender item is the spray outfit. A well-made spray mount complete with flacon of lavender water packed in a hinged Ed box and moderately priced.

Charles Midgley, Ltd.,

325 City Road, Manchester, have sent us a comprehensive selection of novel Christmas lines. We notice, first, an excellent example of soap fruit in the form of a basket containing apple, lemon and two pears; this is a most realistic gift. There are many other novelties in soap, including kittens, dogs, books, motor cars, clocks, etc., all of which should greatly appeal during the festive season. We have before us also some neat presentation cases containing, in different combinations, bath salts and soap; each case contains a greetings card. Other lines of interest in Messrs. Midgley's wide range include coffrets containing soap and perfume, soap in neat boxes, bath salts in a powder bowl and bath salts in a vase.

Parfumerie de Fleury

have sent for our inspection twelve samples of their range of Christmas coffrets. The complete selection, we understand, comprises over fifty lines, and some idea of their general excellence may be obtained from our illustration on this page. The gifts shown are representative of high quality and attractive appearance, two features which have come to be associated with the name of

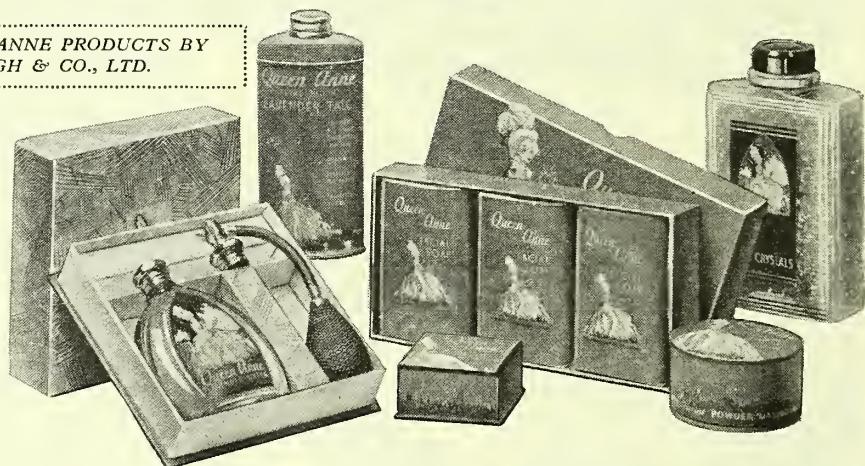


A USEFUL SUGGESTION BY HIRST BROOKE & HIRST, LTD.



NEW PACKS BY
JOHN GOSNELL & CO., LTD.

RIGHT : QUEEN ANNE PRODUCTS BY
MARLBOROUGH & CO., LTD.



this British maker. Messrs. Parfumerie de Fleury state (and indeed it is obvious) that they have gone to an enormous amount of trouble and expense in producing these coffrets. The designs are unusually attractive and effective; for the most part they are on modernistic lines with occasionally an example of the more familiar styles. The artists' original designs for the covers of the boxes have been accurately reproduced by lithography in as many as fourteen colours and silver, yet no charge is made for the boxes so that the retailer can suffer no loss on any unsold sets. A feature of practical importance is that each coffret is packed in a plain outer, and each outer is distinctly labelled with the code number and price of the article; in each outer also there is a card announcing the fact that these elegant boxes have possibilities for future use as, for example, trinket boxes. Moreover, space is available on the card for the name of the donor, a refinement which, no doubt, will be greatly appreciated. In many of the coffrets for women designs which appear on the lids of the boxes have been repeated on certain of the contents; this is rather a pleasing feature which is sure to attract attention. Some of the sets for men have an unusual appeal, especially for the sportsman and golfer. The golf sets contain one or more Don Juan golf balls, the product of a firm of well-known golf ball manufacturers; the balls are accompanied by one or two pegs for use at the tees. The men's sets are in one perfume only, a refreshing lilac, but those for women are available in the three popular perfumes, Lady Gay, Salutation and Winged Wishes. As regards price, all tastes and purses are catered for, and each coffret represents maximum value for money. While it would be tedious to describe each coffret in detail we might mention, perhaps, some of the combinations which have particularly attracted our attention. For the bath, coffret No. 25 contains talcum powder, bath soap and two pairs of bath salt tablets; No. 12 contains Poudre de Fleury, foundation cream and cleansing cream (in tubes), and one tablet of beauty soap; No. 38 (for men) comprises one Don Juan shaving cream, styptic pencil, liquid brilliantine and after-shave cream; No. 21 contains

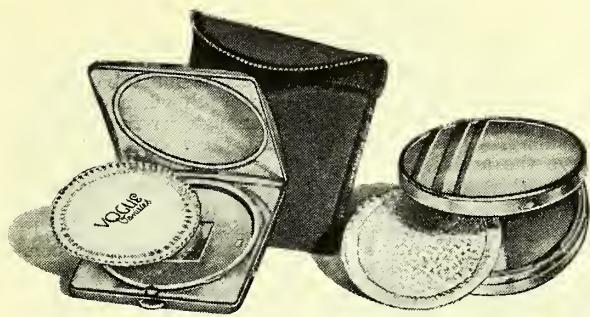
Wedgwood series Vanipact powder, Winged Wishes perfume in a neat stoppered bottle and a Vanilip lipstick; No. 29 (for men) contains Don Juan shaving cream, styptic pencil, two Don Juan golf balls, two pegs and brilliantine. The remaining selections are equally attractive.

The Ronson Products, Ltd.,

Manfield House, 376 Strand, London, W.C.2, are the manufacturers of the Ronson razor and the Perfume-Mist. The former has been already described (*C. & D.*, May 21, p. 558) and should meet with the demand for a useful present for men. The



* SOLPORT BROTHERS, LTD. : AN ATTRACTIVE DISPLAY



VOGUE VANITIES : BLACKMORE, HOWARD & METHERELL, LTD.

Perfu-Mist is an attractive perfume spray built on the lines of the well-known Ronson lighters. It is available in a number of styles, including leather covered, enamelled, chromium plated, and pearl. It is neat, effective, well constructed and packed for presentation in a substantial case. The spray is easily filled and operated, vigorous pressure on the plunger producing a heavy, and gentle pressure a fine, mist.

Saville Perfumery, Ltd.

Junction Laboratories, Watford, have introduced a good number of new lines for the Christmas trade. Our illustration (p. 389) gives some idea of the range of coffrets offered. The following is a list of new lines in June perfumery:—Shaving cream, shaving stick, new pack for talcum powder designed to emphasise those floral characteristics associated with June products, and solid brilliantine. The greatest interest, however, is likely to be shown in the new powder pack, which embodies two distinctly attractive features: (1) the box is very artistic in design and (2) it is fitted with a device for refilling the Rola sifter box—an already established favourite—a feature which should greatly increase the popularity of the latter. There is also a range of new compacts in bakelite cases which can be supplied in assorted colours to match handbags and dresses.

GIFTS FOR MEN :
SCOTT & BOWNE, LTD.



Solport Brothers, Ltd.,

184 Goswell Road, London, E.C.1, have sent us several new samples of handkerchief puffs, accompanying which is a "gold" box in which any of the handkerchiefs can be packed at a slight additional cost. We notice that the handkerchiefs are moderately priced. Display stands (as illustrated), each showing six puffs, are another feature; one of these is given free with an order of a certain value for Nerissa handkerchief puffs. New watered silk *pochettes* (in two sizes) also call for mention: each contains a georgette handkerchief puff with swansdown centre, a comb and a mirror.

EXAMPLES FROM THE RANGE OF
POTTER & CLARKE, LTD.



A NEW PERFUME BY
TOKALON, LTD.



Henry Tetlow Co., Ltd.,

London, W.C.1, have sent for our inspection one of the new Swandown counter display stands for the 6d. cold cream and vanishing cream, and a tube of the 6d. size vanishing cream in its new distinctive carton. The range of Swandown preparations comprises powders supplied in seven modern shades, including the new sun tan, and vanishing creams and cold creams in the new British pack. The latter is an extra-sized tube containing approximately 50 per cent. more than usual. These lines are being consistently advertised and generous discounts are allowed with periodical bonus offers.

Tokalon, Ltd.,

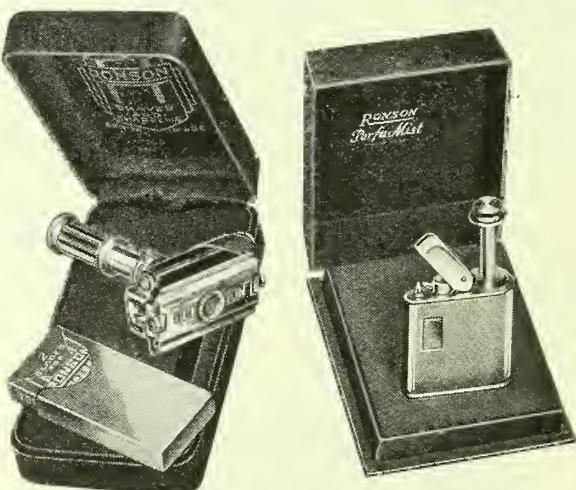
Chase Road, London, N.W.10, are placing on the market a new perfume, samples of which we illustrate herewith. This is a high-class concentrated floral perfume which, the makers state, has proved itself popular against the most expensive French products over a series of tests conducted amongst hundreds of women users. Our illustration includes a special display stand containing the three sizes of Kappa perfume distinctly marked with their prices. The two larger sizes are most attractively presented, the elegant cases being also clearly shown. The small size is enclosed in a neat display box of half a dozen bottles. We understand that to introduce Kappa perfume a special offer will be made.

Vogue Vanities

Many customers desire a powder box which will hold their favourite powder in its loose form. Such a container must fulfil three conditions; it must be simple, it must hold the powder securely both when open and when shut, and it must be slim enough for the daintiest handbag. Vogue Vanities fulfil these conditions and have the additional value of being British made. The

cases are constructed to make the escape of powder practically impossible by means of a separate compartment underneath, for the powder, with a miniature "trap-door" on which a tap with finger-nail allows the quantity of powder required to come to the surface. The designs illustrated (p. 387) show two of the attractive models from the very extensive range of Vogue Vanities. Model No. 168 is square with lacquered finish, obtainable in black, jade green, pillarbox red,

mimosa, and blue. No. 151 has a striped decoration, and can be obtained in a variety of colours. The manufacturers are Blackmore, Howard & Metherell, Ltd.



RAZOR AND SPRAY : THE RONSON PRODUCTS, LTD.



SMART GIFTS FROM
YARDLEY & CO., LTD.



A SELECTION OF STRIKING CHRISTMAS PACKS BY SAVILLE PERFUMERY, LTD.

The J. B. Williams Co.

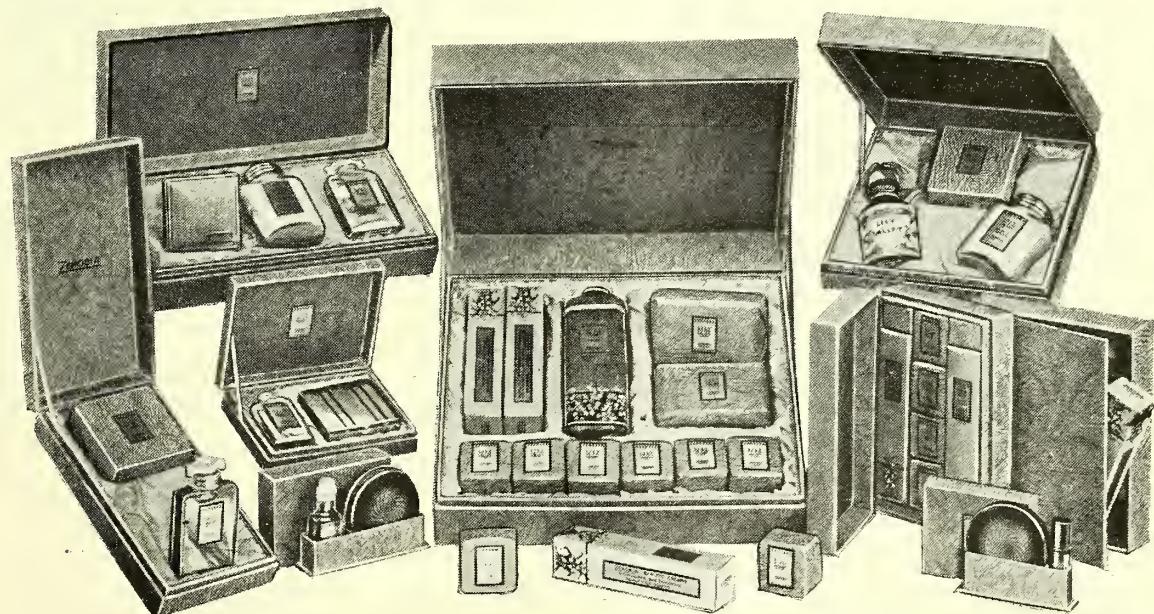
We have received from Scott & Bowne, Ltd., 10 Stonecutter Street, London, E.C.4, sole distributors in Great Britain for the shaving and toilet preparations of The J. B. Williams Co., two excellent presentation cases for men. As our illustration shows, each case contains one bottle of Aqua Velva and either shaving cream or shaving stick. The cases are neat in appearance, and the contents excellent value for the price.

Yardley & Co., Ltd.

Pollen House, Cork Street, London, W.1, have a number of high-class goods on offer, some of which are shown in one of our illustrations. Attention is drawn particularly to the range of gift cases, issued at various prices. There are also men's sets, always a popular type of Christmas gift; and there is a smart new vanity case, which is set off to advantage by a showcard.

Zenobia, Ltd.,

Loughborough, are issuing a large number of new Christmas lines. Zenobia Lily of the Valley day and night creams (Nos. 581 and 582) are supplied in tubes and (larger size) in jars. With these goes a new display stand for their more effective presentation. Then there is a new compact (636) carried out in nickel-plated metal, with puff and mirror. A novel pack (1085) contains day and night creams in tubes, together with four bath cubes; and another (1082) comprises tubes of day and night creams, four bath cubes and a tablet of soap. All of these are priced on the low side, as also is No. 1089, consisting of a small bottle of perfume and a large compact in oxidised metal case. Turning to the more elaborate sets, we notice a bath set (1083), containing day and night creams, talcum powder, two tablets of soap and six bath cubes in a silk-lined case; and another case (1092) enclosing a large bottle of perfume, nickel-plated compact and a jar of day cream.



COFFRETS TO SUIT ALL TASTES BY ZENOBIA, LTD.

Trade Notes

CHRISTMAS TRADE.—The attention of our readers is directed to the announcements of the following advertisers who have taken advantage of the special facilities afforded them by the insertion of a sixteen page coloured inset devoted, in the main, to stimulating Christmas trade:—ANZORA PERFUMERY CO., LTD.; T. F. BRISTOW & CO., LTD.; BRITANNIA LABORATORIES; H. BRONNLEY & CO., LTD.; CLAYTON & JOWETT, LTD.; EDWARD HACK; F. W. HAMPSHIRE & CO., LTD.; INTERNATIONAL BOTTLE CO., LTD.; THE IVA MANUFACTURING CO.; JOHNS, SON & WATTS; KU-BIST SALES; PARSCENT, LTD.; PARFUMERIES DE PARIS, LTD.; PENCOT, LTD. (agents for Mouson perfumery); PHILLIPS' PATENTS, LTD.; PIFCO, LTD.; R. J. REUTER COMPANY, LTD.; CHARLES ROGER LABORATORIES, LTD.; RUFF & CO.; SCOTT & BOWNE, LTD.; SHAVING BRUSHES, LTD.; SOLPORT BROTHERS, LTD.; TURKNIT COMPLEXION CLOTHS; WALDEN, WALDEN & CO.; WOOD BROS. GLASS CO., LTD. The eight-page photogravure inset also included in this issue contains announcements by CUSSONS, SONS & CO., LTD.; THE LEYLAND AND BIRMINGHAM RUBBER CO., LTD.; MARLBOROUGH & CO., LTD.; PHILIP, JOSEPHS & SONS, LTD.; POTTER & CLARKE, LTD.; and PREMO BRUSHES, LTD. Imitation art paper is used for the advertisements of A. BOURJOIS ET CIE, LTD.; DEARBORN (1923), LTD.; J. W. LIGHTBOWN & SONS, LTD.; and ROBINSON & SONS, LTD. Last, but certainly not least, may we mention the comprehensive and artistic supplement in green and black on buff imitation art paper inserted by SAVILLE PERFUMERY, LTD., and the excellent gold, black and white announcement by JOHN DEW, LTD.

INSECTICIDES.—The Cromessol Co., 140-148 Brand Street, Ibrox, Glasgow, S.W.1, call attention to the new design of their sprayer for Cromessol; this apparatus has now a pumping stroke which makes it possible for the spray to travel a distance of fifteen feet. Cromessol is diluted with sixty parts of water before use, and its cost is thus quite moderate; it is non-poisonous. From the same company come samples of Habuka sachet moth killer, a perfumed insecticide, and of Kromo beetle powder, the latter supplied in two sizes.

AN EFFECTIVE PASTILLE DISPLAY.—The Grips pastilles display stand shown here is of modest size (20 in. by 20 in.), and forms a good centrepiece for a striking display. The predominant colours are blue and grey. The colours have been specially chosen for actinic effect when displayed in the full light of day, and have the



boldness necessary to secure attention without forcing themselves upon the passer-by. This Grips display stand is made of stout card and packs flat. It accommodates two 5-lb. and one dozen pocket boxes. The stand is supplied free with every order for the pastilles on it at the wholesale rate from usual wholesalers, or from the manufacturers, J. W. Lightbown & Sons, Ltd., Accrington.

ANTI-THRAX TOOTH-BRUSHES.—Following on the success of Anti-Thrax shaving brushes, which have been illustrated and described in recent issues of the *C. & D.*, Mr. Edward Hack, 69 Farringdon Road, London, E.C.1, has introduced Anti-Thrax tooth-brushes. Looking at the range before us (which we illustrate herewith), the first point which strikes us is that each brush is adequately protected from contamination by means of a patented waterproof container which completely en-



velops the head of the brush. A further advantage is that moisture from the brush cannot affect clothes or other goods with which the brush may be packed. The brushes are supplied in outers containing two layers of six and on the neat black and white showcard shown herewith. This card carries seven brushes, from which the customer can select the one required. Each brush, of course, carries a voucher for a £500 free insurance against anthrax. Full particulars of terms and a special offer will be found in our advertisement pages.

MAZDA LAMPS, having the advantage of a non-sag filament, are advertised by The British Thomson-Houston Co., Ltd., Rugby.

YESTAMIN.—The English Grains Co., Ltd., Burton-on-Trent, call attention, elsewhere in this issue, to Yestamin, supplied in tablets and powder.

M. J. BLOCK, trading as Chas. Beauclarke, 6 Neville Street, Newcastle-on-Tyne, wishes to state he is not connected with any firm trading in the same name.

SOR-TOX (LONDON), LTD., 73 Basinghall Street, London, E.C.2, call attention elsewhere in this issue to a special bonus scheme now in operation for Sor-Tox rat exterminator.

KOTEX, LTD., 317 High Holborn, London, W.C.1, announce that, with every dozen Kotex ordered, the wholesaler will give one box free. The normal profit is 33½ per cent. This offer closes on September 30.

GIBBS' SHAVING CREAM.—We have received from D. & W. Gibbs, Ltd., City Soap Works, London, E.1, samples of the new 6d. size of Gibbs' shaving cream. The tubes, in cartons, are neatly packed twelve in an outer.

Births

Notices for insertion in this column must be properly authenticated.

HENDRY.—At 6 Anderson Drive, Renfrew, on September 9, Annie, wife of David Hendry, chemist and druggist, of a daughter.

Marriages

FOSTER—RAINFORD.—At St. Paul's Church, Adlington, on September 14, by the Vicar (the Rev. W. R. Coombs), Richard Pearson Foster, M.P.S., to Alice Rainford, Adlington.

GOODE—HEWARD.—At St. Mary's Church, Twickenham, on September 3, Chas. E. A. Goode, chemist and druggist, to Mrs. E. Heward (The R. H. Heward Co.).

HART—MCMAHON.—At Albertbridge Congregational Church, Belfast, on September 6, Thomas Seymour Hart, M.P.S.N.I., to Mary Elizabeth (Elsie) McMahon.

Deaths

BROWN.—At the Bungalow, Marine Parade, Sandy-cove, Dublin, on September 12, Mr. George Brown, M.P.S.I., aged seventy-three. Mr. Brown, who was born in Stanley, Perthshire, served his apprenticeship in Lasswade, Midlothian, and gained experience in Glasgow, London, and elsewhere before going to Dublin as an assistant to the late Mr. W. F. Wells. He passed the Licence examination in Ireland and the Qualifying examination of the Pharmaceutical Society of Great Britain in 1886 at an interval of about two months. Mr. Brown commenced business on his own account at 20 Wexford Street, Dublin, in 1887, and continued

his active association with it till a few days before his death. In 1901 he bought the business of the late Mr. W. B. Murray at 139 Stephen's Green, and carried it on under a management until 1914, when his eldest son, Mr. Ronald B. Brown, took charge. In 1920 he transferred his interest in the Stephen's Green shop to his son. Mr. Brown was a member of the Pharmaceutical Society's Council for a lengthy period, and acted on several occasions as an examiner to the Society. He was also a past-president of the Dublin and Provincial Retail Drug Association. The late Dr. Brontë, the well-known pathologist, was one of his assistants. Mr. Brown was a member of the Methodist Church and took a deep interest in all its activities. He is survived by a widow, three sons and a daughter, Miss Norah E. Brown, M.P.S.I. Miss Brown will continue the Wexford Street business.

HARROLD.—On September 16, Mr. William Malcolm Harrold, chemist and druggist, High Street, Forres. Mr. Harrold, who was a native of the town, qualified in 1894. After qualifying he spent some time in Belfast, but later returned to Forres, where he built up a substantial business. Mr. Harrold was a man of wide



MR. G. BROWN, M.P.S.I.

culture, with literary and musical tastes, and was fond of shooting and golf.

LEEDALE.—At 15 Royal Avenue, Doncaster, on September 12, Mr. Robert William Leedale, chemist and druggist, aged fifty. During the recent war Mr. Leedale was twice mentioned in dispatches; he served in India as a dispenser, and on a hospital ship travelling between France and England. He commenced business on his own account a few years ago.

MACEWAN.—At Hull, on August 30, Mr. Archibald MacEwan, chemist and druggist. Mr. MacEwan qualified in 1893.

MICHIE.—Recently, Mr. James Michie, M.P.S.I., a past-president of the Pharmaceutical Society of Ireland. Mr. Michie passed the Licence examination of the Society in 1888. He acquired the business of the late Mr. Richard Donovan, Blackrock, co. Dublin, and carried it on successfully till his retirement last year, when he disposed of it to Mr. F. W. Buchanan, L.P.S.I. Mr. Michie was an examiner to the Pharmaceutical Society of Ireland from 1900 to 1905, and at the close of that period was elected to a vacancy on the Council caused by the death of Professor Tichborne. He held office as vice-president in 1915-17, and as president in 1917-19. Mr. Michie was an outstanding pharmacist, and his death is deeply regretted in pharmaceutical circles in Dublin and the district.

REES.—At Corsham, on September 19, Mr. Thomas Rees, chemist and druggist, chairman, Bath Branch of the Pharmaceutical Society, aged forty-seven. Mr. Rees, who qualified in 1909, was at the Bristol Royal Infirmary during the European war. In 1920 he purchased the business of Mr. F. Baines, at Corsham. He served on the Parish Council for a time; he was also a member of the Wiltshire Insurance Committee and a prominent freemason. Mr. Rees leaves a widow, a son, and a daughter.

Personalities

MR. F. W. KNOWLES has been granted leave by the Guernsey Court to practise as a chemist in the island.

MR. W. E. WHITE, chemist and druggist, 7 Market Street, Gainsborough, has been elected to the Urban Council.

MR. A. HANDLEY, chemist and druggist, for twenty-seven years manager at Poole for Boots, Ltd., who has retired after thirty years' service, has been presented by the directors with an electric wireless set, and by the staff with an umbrella.

At the recent National Display Convention, held at Guildford, an address on chemists' windows was given by Mr. H. Cundall (display manager, D. & W. Gibbs, Ltd.), and Mr. W. Massey, chemist and druggist (president, Guildford Chamber of Trade), was among those present at the inaugural luncheon given by the Mayor.

Business Changes

J. & D. HILSTON, chemists, Lanark, are opening a branch at Bannatyne Street.

MR. R. C. BROWN, chemist and druggist, is opening a business at 62 Browning Road, Enfield.

MR. JOHN BLACK, chemist and druggist, has opened a pharmacy at Eastwoodmains Road East, Williamwood, Giffnock.

MR. L. W. PARR, chemist and druggist, has acquired the business of Mr. W. T. Dawson, chemist and druggist, Prince of Wales' Road, Norwich.



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| H/199. Eska nasal syringes | G/129. My Beauty razors |
| | W/179. Syko silky tissue window papers |

THE
CHEMIST AND DRUGGIST
 VOL. CXVII. SEPTEMBER 24, 1932 NO. 2746

The Conference and After

THE publication of Canadian-American Conference notes by Mr. Herbert Skinner in one issue of **THE CHEMIST AND DRUGGIST** and of his address and speeches as chairman of the British Pharmaceutical Conference in the next issue is sufficiently unusual to suggest a brief comment on the end-value of these conferences. Socially they are successful, as scattered members of the profession are brought into a personal contact which otherwise it would be difficult to achieve. Much has been written on this topic which is self-evident: what is not so obvious is the chance a Conference presents for pharmacists to get into intellectual contact, to discuss points of view and difficulties which may have arisen in the development of a particular phase of activity in life. The progressive scientific development in pharmaceutical life has always been slow, owing in some measure to the widely scattered nature of the calling and the difficulties of getting together. Business conferences are useful, but probably not sufficiently numerous to produce concerted action; while delegates' conferences of the nature of those held in Aberdeen may be regarded as chiefly for the purpose of stimulating a sort of pharmaceutical public opinion. In the Pan-American conference the purpose would appear to be distantly related to scientific development, efficient perhaps over almost a continent, but, on the other hand, insufficiently concentrated for immediate progress. The British Pharmaceutical Conference presents itself as an easily controlled progressive movement, yet one not wholly successful. Pharmaceutical Conferences should be judged, not by the number of papers read, but by the stimulus to research in the solution of problems and in the co-ordination of our varied *materia medica* for the welfare of the community. Occasionally there arises at a Conference some glittering phrase which flashes through the Press as a dazzling headline, and, after a twelve-hour scintillation, ceases to be—except in Press cuttings. Personal contacts have been made at a Conference, friendships have been cemented, and new relationships formed; but if this is all, the Conference is only partially successful.

The Aberdeen Conference

This year's meeting of the Conference in Aberdeen, the closing events of which are recorded in this issue, was in the social sense, and in the delegation sense, too, an admitted success. Every material factor combined to produce such a result, but progress will be estimated later in different terms. In the ultimate analysis the question will be asked: did the pharmaceutical vision outlined make it easier to advance the community's welfare, and to bring professional content nearer? Mr. Skinner sketched the hospital pharmaceutical service: substance can only be given to his visual forms by distinctive

effort of the authorities on whom directive activity is dependent. He set forth a wider orientation of pharmacy based on hospital pharmaceutical service. As to research, the question is whether from the scientific papers some reproductive result is possible or whether the monographs must be written down as merely an academic exposition of something distantly related to life. Mr. Skinner suggested clinical results as the true test of pharmaceutical activity. In this respect he was essentially right, for he truly said that pharmacy is a branch of medicine. From cases he cited it appears—and few practitioners would deny it—that there is a considerable waste of remedial substances, to say nothing of commercial energy, in a sort of mutual imitation. It should not be, as he said, beyond the wit of the respective professions to provide suitable machinery to cut out waste and produce only that which is useful. Again, in the training of pharmacists there is much to be desired, as we all know. In remedial substances a wide field—"a sort of no-man's land"—exists which lends itself to exploitation, and that is bad for the community. Clearer vision in our authorities is needed.

The Alternative

The chief concern of pharmacy is whether a conscious orientation is being made towards a new field of usefulness, or whether our authorities are satisfied with archaic principles and methods. Certain things found on the Continent or in America may be judged to be suitable for the conditions there. In Great Britain, from a variety of causes, the problems of pharmacy differ. This is apparently reflected in the differences shown between the respective Conferences. What chiefly matters is whether we are providing the most adequate means for our profession to help medicine to become more effective. A new note was struck at this Aberdeen meeting of the Conference, owing to it being the first where hospital pharmaceutical service had an exposition. It may not have been a complete presentment, but it served to point the way; and it should be easier henceforth to organise research having an end-value without over-accentuation of the academic side. The scientific papers contained a number of useful investigations, but the Research List of the Conference indicates many problems yet unsolved. The value of such a list is to indicate lines of desired activity, and in this way a further step in progress was made. The danger is that it may become a list unrelated to active research work; but the present list contains several subjects having real medical interest. Annual revision of the list of subjects will no doubt follow. Other suggestions were made on the historical side, but this feature in a limited profession is easily covered by an occasional paper. The contribution which received the most practical attention was that from the British Pharmaceutical Codex laboratory, which serves to show that papers on pharmacy prove interesting. The number of papers was greater than usual, and the quality was high; but the contributions are still largely dependent on technicians in the wholesale houses' laboratories. It may be hoped that future research will produce papers from a wider field, and make the Conference the means to greater usefulness.

The Progress of Pharmacy and Allied Sciences

PHARMACY

Colour Changes in Prescriptions containing Salicylates.—F. Grill ("Journal of the American Pharmaceutical Association," 21, 8,765) suggests reasons for the colour change occurring in alkaline solutions of salicylates. The incompatibility of sodium bicarbonate with a solution of sodium salicylate concerns change from colourless solution to dark brown and almost black. It is suggested that the phenoic hydroxyl group of salicylic acid is oxidised to produce compounds having a quinoid structure, and these act as chromophores. The presence of ferric iron expedites oxidation, as also exposure to light and free access of air. The colour change may be controlled to some extent by using recently boiled water and chemicals free from iron, with storage in coloured glass containers.

Assay of Digitalis Tinctures.—F. J. Dyer compares ("Quarterly Journal of Pharmacy and Pharmacology," 5, 2, 172) the assay of tinctures of digitalis by the colorimetric and biological methods, using fifteen commercial samples in each case. From the table of comparison for the two methods, and from the diagram showing distribution of the samples about a line representing equipotency by both methods, discrepancies between the values given by the two methods are seen to be serious. Only one sample shows satisfactory agreement, five fall within the estimated gross limits of experimental error (\pm 30 per cent.), and the remaining nine samples show wide divergencies. It is concluded that the colorimetric method cannot be accepted even as an approximate indication of the biological (frog) potency of tincture of digitalis, and that its use for routine assays is contra-indicated.

Biological Assay of Strophanthus.—J. H. Gaddum gives the results of an organised study of tinctures of strophanthus ("Quarterly Journal of Pharmacy and Pharmacology," 5, 2, 274). The potency of five different tinctures of strophanthus (kombé) has been measured in comparison with the international standard ouabain by nine different observers using seven different methods. The official method of the U.S.P. X gives higher values than any of the other methods used. This is due partly to the use of a short experimental period and partly to a peculiarity of the American frog, *R. pipiens*, which is more susceptible than *R. temporaria* to tincture of strophanthus and to ouabain. The absorption of ouabain administered subcutaneously to *R. pipiens* is not complete in four hours. The sampling errors of the tests based on slow intravenous administration to cats, dogs, guinea-pigs and rabbits have been compared. These errors were remarkably small in the case of the experiments with guinea-pigs. The size of the error depends, not only on the species of animal used, but also on the details of the technique. If a tincture of strophanthus is used as a standard, the discrepancies between the results of tests carried out by different methods are smaller than when ouabain is used.

New Iodine Antiseptic.—G. M. Karns, L. H. Cretcher, and G. M. Beal ("Journal of the American Pharmaceutical Association," 21, 8,783), as a result of an investigation of the adsorption of iodine antiseptics, have devised two aqueous solutions as being most likely to provide persistence of iodine upon a surface independent of the fate of the residual solution.

It was found that the partial wetting power of aqueous iodide solutions is much greater than from solutions in alcohol (70 per cent.), with the same iodine content. By adjusting the ratio of iodide to iodine, aqueous solution containing 3 per cent. of iodine will deposit on a surface the same amount of iodine as a 5 per cent. Lugol's solution (with a higher iodide to iodine ratio). The following proportions are given for a solution containing sodium as positive metallic ion, this being physiologically preferable to potassium:—

| | | | | | | | |
|---------------|-----|-----|-----|-----|-----|-------|-------|
| Iodine | ... | ... | ... | ... | ... | 1.000 | parts |
| Sodium iodide | ... | ... | ... | ... | ... | 1.180 | " |

For an iodide solution to be used in contact with tissue in large amounts, an ion ratio theoretically balanced with the blood may be made from:—

| | | | | | | | |
|------------------------------|-----|-----|-----|-----|-----|-------|-------|
| Iodine | ... | ... | ... | ... | ... | 1.000 | parts |
| Calcium iodide (hexahydrate) | ... | ... | ... | ... | ... | 0.044 | " |
| Potassium iodide | ... | ... | ... | ... | ... | 0.048 | " |
| Sodium iodide | ... | ... | ... | ... | ... | 1.104 | " |

In both cases the solution can be made to any desired strength. For direct application to open wounds and for hospital use, a solution containing 2 per cent. of free iodine has been found to be most satisfactory. For home cabinets and oral use, a 3-per-cent. strength is preferred. In practice, the iodine solution is applied in excess, and allowed to remain in contact for fifteen to thirty seconds before washing with water or drying with absorbent cotton. This procedure leaves the desired dose behind. It has been found that the rate of penetration from a 3-per-cent. aqueous solution of iodine is about twice that from an alcoholic solution of the same strength. The controlled dosage prevents iodine burns effectively. The aqueous solution has a phenol coefficient about 15 per cent. greater than that of an alcoholic solution of like iodine content.

Strychnine-Brucine Ratio of Nux Vomica Alkaloids.—R. W. Morrison and R. Bliss, jun. ("Journal of the American Pharmaceutical Association," 21, 7, 648) report that the method of A. B. Lyons permits complete destruction of brucine and complete recovery of strychnine during determination of strychnine-brucine ratio of nux vomica alkaloids. Samples of powdered nux vomica, fluid extract and tincture of nux vomica were extracted as in the U.S.P. X assays and the alkaloidal residues treated with 1.5 c.c. of strong nitric acid and 1 c.c. of 5-per-cent. solution of sodium nitrite, and the mixture (after stirring well) was allowed to stand at room temperature for exactly ten minutes to destroy the brucine. The solution was then rendered alkaline with ammonia and the strychnine re-extracted and weighed. The method of British Pharmacopoeia, 1914, also shows complete destruction of brucine, but about 5 per cent. of the strychnine is destroyed also. The results of the comprehensive chemical and pharmacological investigation shows that, contrary to previous reports, there is fair uniformity in the percentages of total alkaloids in the eight samples of nux vomica examined, these being obtained from eight different market sources. The lowest percentage was 2.0 and the highest 2.48. In six samples the brucine content exceeded that of strychnine, the average brucine-strychnine ratio being 56 to 44. One sample came close to the presupposed 50-50 ratio, and in one case the proportions were reversed, being 46 of brucine to 54 of strychnine. The relative amounts of strychnine in the

The Progress of Pharmacy and Allied Sciences

fluid extracts and tinctures were in fair accord with the amounts present in the crude drug. The tests upon animals showed that species susceptibility is a factor entering into determination of the relative potencies of strychnine and brucine. This accounts for the wide differences in previous reports. The relative degree of toxicity of strychnine to brucine remained relatively constant with warm-blooded animals used (dog, rabbit and cat), but varied in the cold-blooded frog. The dog and rabbit are the more satisfactory for such comparative study. The strychnine-brucine toxicity ratio for the cat is 1 to 35, that for rabbit being 1 to 37, compared with 1 to 45 in the dog. In the case of the frog the corresponding ratio is much greater (1 to 80). The convulsions of brucinised animals were of a much severer type than those of animals poisoned by strychnine, which is contrary to previous statements. It is concluded that a strychnine-content standard for nux vomica preparations is more suitable than assay in terms of total alkaloids.

PHARMACEUTICAL CHEMISTRY

Dehydration of Alcohol.—A method suitable for the preparation of nearly anhydrous alcohol on a small scale is described by L. P. Kyrides and co-workers in "Industrial and Engineering Chemistry" for July (24, 795). Dehydration is effected by sodium ethylene glycoloxide. This is made by adding sodium hydroxide (160 grams of 50-per-cent. solution) to an excess of ethylene glycol (248 grams) and driving off the water by heating in a flask equipped with a Vigreux column. The product is suitable for dehydrating 500 c.c. of strong alcohol (92.5 per cent.) with a water content equivalent to 80 per cent. of theoretical amount to hydrolyse the glycoloxide. The regenerated glycol can be used over again. A continuous process using sodium ethylene glycoloxide was also tried, and served to show that 99-per-cent. alcohol is readily obtainable by this method.

Oxidation of Optochin.—C. C. Vernon and H. U. Resch ("Journal of the American Chemical Society," 54, 8, 3455), during attempts to reduce the toxicity of optochin, have prepared 6-ethoxyquinoline-carboxylic acid-4 by direct oxidation of optochin. A solution containing 10 gm. of optochin and 30 gm. of sulphuric acid in 200 gm. of water was heated to boiling in a flask fitted with a reflux condenser and dropping funnel. A cold saturated solution of chromic oxide in water, containing 20 gm. in all, was slowly added to the boiling solution, over a period of ninety minutes. Boiling was continued for thirty to sixty minutes, and then sufficient ethyl alcohol was added to reduce the remaining oxidising agent. The cooled reaction mixture was treated with a solution of 90 gm. of potassium hydroxide dissolved in 500 c.c. of water, and the gelatinous mass of chromium hydroxide filtered out. The filtrate was exactly neutralised with sulphuric acid, and concentrated to a volume of not more than 300 c.c. An equal volume of 95-per-cent. ethyl alcohol was added and the precipitated potassium sulphate removed by filtration. The alcohol was recovered from the filtrate by distillation and the remaining solution concentrated to approximately 50 c.c. over a water bath. Any precipitate appearing at this point was discarded, and 3 gm. of hydrochloric acid added. After fifteen minutes' heating over a water bath, yellow needles formed in this solution upon cooling to room temperature. Several crops of these crystals were secured by further concentration of this solution before the residue became so saturated with tarry materials that further treatment was useless.

AGRICULTURAL CHEMISTRY

Inactivation of Insect Powder.—F. Tattersfield ("Journal of Agricultural Science," 22, 396) finds that exposure to air and light results in pyrethrum powder losing its toxicity to insects. Such inactivation is prevented by storage in closed vessels in the dark. Insect powder is also relatively stable when exposed to light

in the absence of air (i.e., *in vacuo* or with an inert atmosphere of nitrogen or carbon dioxide). The destructive action of oxygen can be retarded by incorporation of antioxidants, such as pyrocatechol, resorcinol and other dihydric or trihydric phenols. Tannic acid in particular is useful in affording a measure of protection against inactivation of insect powder exposed to air and light.

Control of Leather-Jackets by *o*-dichlorobenzene.—R. B. Dawson, in the "Journal of the Board of Green-keeping Research" (No. 6), specially recommends the use of an emulsion containing 64 per cent. of orthodichlorobenzene as the most trustworthy means of destroying leather-jackets. These larvæ of the daddy-long-legs (*Tipula paludosa*) are apt to be destructive to turf, and their control over large areas such as golf greens necessitates the use of a larvicide. The cost of treatment varies from 8s. to 12s. per 500 square yards. Naphthalene, Paris green or ammonia is also effective but less reliable. For small, level areas covering overnight with tarpaulin or rubber sheets after soaking the ground with water is often successful, as this bring the larvæ to the surface for collection.

BIOLOGICAL CHEMISTRY

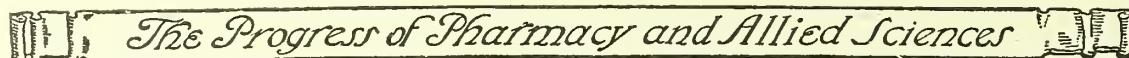
Stability of Vitamin-D Preparations.—R. B. Bourdillon, R. M. Bruce and T. A. Webster ("Biochemical Journal," 26, 2, 522) show that vitamin-D solution in olive oil may deteriorate seriously during storage for a year or more at room temperature. The loss was not detectable at 0° C., but extrapolation indicates that half the activity may disappear in about three years at this low temperature.

Destruction of Vitamin C in Autoclaved Lemon Juice.—S. W. Johnson and S. S. Zilva ("Biochemical Journal," 26, 3, 871) find that a substance, probably related to catechol, is produced in autoclaving sugar solutions which inactivates vitamin C. This accounts for the increased loss of vitamin C during storage of autoclaved unfermented decitratified lemon juice compared with decitratified juice freed from sugar by fermentation prior to autoclaving.

Interpretation of Vitamin-A Colour Test.—R. S. Morgan ("Biochemical Journal," 26, 2, 377) considers that the "blue minus yellow" value would be a better criterion than the blue reading usually measured in antimony chloride colour test for vitamin A. It is shown that the blue reading in the Lovibond match of a copper sulphate solution varies widely when red glass is interposed. This variation corresponds to that met in colour matching a wide range of oils and vitamin-A concentrates.

Crypto toxin is the name given by H. Vincent and L. Velluz ("Journal of the Paris Academy of Sciences," 194, 1697) to diphtheria toxin with specific action "neutralised" by the addition of sodium α -oxynaphthoate. This substance possesses a selective neutralising effect on diphtheria toxin, since the resultant cryptotoxin when injected into guinea pigs produces neither the paralysis nor other symptoms of toxicity. The crypto-toxic properties of sodium α -oxynaphthoate make it possible to provide complete immunity against the action of diphtheria toxin.

Chemical Composition of Vitamin C.—L. J. Harris and others discuss ("Lancet," 5683, 235) the chemical composition of vitamin C, believed by Szent-Györgyi to be identical with hexuronic acid, of which he sent the authors a specimen for the purposes of a biological test. The quantity was insufficient for the usual routine method to be followed, and two other methods were adopted. The antiscorbutic action of a preparation of hexuronic acid has been confirmed by means of a striking curative test and by the tooth-structure method. 1 mgm. of the hexuronic acid (an old specimen) was found to have an activity somewhat greater than 1 c.c. of orange juice. Preliminary experiments


 The Progress of Pharmacy and Allied Sciences

have established the high antiscorbutic activity of raw suprarenal cortex, roughly proportional to its high hexuronic acid content. The evidence as to the identity of hexuronic acid with vitamin C is not regarded by the authors as conclusive.

Oxidation of Vitamin A.—W. J. Dann ("Biochemical Journal," 26, 3, 667) finds that the solvent plays a cardinal part as regards resistance of vitamin A to oxidation by air. The data below show the percentage of vitamin A oxidised in one hour under similar conditions:

| Solvent | Percentage oxidised | Solvent | Percentage oxidised |
|-------------------------|---------------------|------------------------|---------------------|
| Ethyl alcohol* | 0 | Ethyl laurate | 67 |
| <i>n</i> -Butyl alcohol | 0 | Ethyl stearate | 87 |
| <i>n</i> -Amyl alcohol | 22 | Ethyl oleate | 81 |
| Cetyl alcohol | 0 | <i>n</i> -Amyl acetate | 23 |
| Acetic acid | 89 | Triacetin | 0 |
| Caproic acid | 54 | Tributyrin | 31 |
| Lauric acid | 93 | Triolein | 36 |
| Stearic acid | 94 | Coconut oil | 29 |
| Oleic acid | 92 | Arachis oil | 60 |
| Ethyl acetate† | 0 | 20% alc. KOH | 0 |

* At 78°C.

† At 66°C.

Vitamin A is especially stable in ethyl alcohol, being resistant to hydrogen peroxide as well as atmospheric oxygen.

INDUSTRIAL CHEMISTRY

Lubricant Insoluble in Organic Solvents.—C. C. Meloche and W. G. Fredrick ("Journal of the American Chemical Society," 54, 8, 3264) give the following method of preparing a lubricant for use with organic solvents:—Mix thoroughly 25 gm. of anhydrous glycerin, 7 gm. of dextrin and 3.5 gm. of chemically pure *d*-mannitol until a thick paste is obtained. Heat carefully with constant stirring until the solid material is dissolved and the solution just begins to boil. A small amount of water is lost. Cool the clear, colourless or sometimes slightly turbid liquid with occasional stirring to room temperature. The liquid becomes highly viscous and finally acquires a lustrous white or opalescent appearance due evidently to the separation of part of the mannitol in a finely divided state. This preparation has excellent lubricating qualities as well as the body and adhesiveness suitable for most purposes. To increase the viscosity add more dextrin. To increase the fluidity add more glycerin. To impart the physical property of a greasy paste add a little more mannitol. Chemically pure *d*-mannitol is recommended, since commercial mannitol will not always yield the desired result. This lubricant is best stored in an ointment jar or kept in a desiccator, but exposure to laboratory air is not harmful. The following solvents had no detectable effect, or at most a very slight and negligible effect: acetic anhydride, acetophenone, benzaldehyde, benzene, bromobenzene, carbon disulphide, carbon tetrachloride, chlorobenzene, tetrachloroethane, cyclohexane, ethyl acetate, ethyl acetoacetate, ethyl bromide, ethyl carbonate, ethylene dichloride, methyl acetate, methylaniline, nitrobenzene, nitromethane, petroleum ether, diphenyl ether, toluene, *o*-toluidine, turpentine, *o*-xylene. The following solvents had a slight effect, not, however, sufficient to prevent the use of the lubricant provided the latter is renewed when necessary: acetaldehyde, acetone, acetyl chloride, amyl acetate, amyl nitrate, benzoyl chloride, *n*-butyl ether, diethyl ether, methylene chloride. The solvent or disintegrating action of the following was sufficient to prevent or greatly hinder the use of the lubricant: aniline, acetic acid, tertiary amyl alcohol, benzyl alcohol, *n*-butyl alcohol, tertiary butyl alcohol, ethyl alcohol, methyl alcohol, diethylamine, ethylene chlorhydrin, ethylene glycol, formic acid, propionic acid, pyridine, quinoline, water and solvents containing water.

PURE CHEMISTRY AND PHYSICS

Structure of Hexuronic Acid.—E. G. Cox ("Nature," 3275, 205), from crystallographic data suggests that

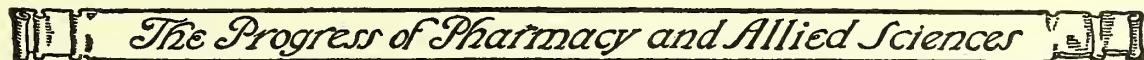
hexuronic acid (vitamin C) has a ring structure with fewer groups projecting out of the plane of ring than is the case with a normal carbohydrate. Crystals of purified hexuronic acid were found to be tabular, usually almost square, with four molecules of $C_6H_{10}O_6$ in the unit cell. The results indicate that the molecule is flatter than any other carbohydrate examined so far. R. W. Herbert and E. L. Hirst (*loc. cit.*) confirm the association of an absorption band about 263 μ , and state that the keto-furanose structure suggested will need re-arrangement since tetra-methyl γ -fructose (a typical sugar of this type) exhibits no selective absorption. In both investigations it is found that the amount of impurity in the original substance identified as vitamin C by Szent-Györgyi must be quite small.

Salts of Phenolphthalein.—W. M. Dehn ("Journal of the American Chemical Society," 54, 7, 2947) has studied the salts of phenolphthalein and summarises his results as follows:—A number of new salts of phenolphthalein have been prepared and studied. They are always additive compounds of phenolphthalein and the basis. Usually two or more molecules of crystal water are also present. It has been demonstrated that most hydrated salts are colourless and become coloured by loss of water. Loss of water can be effected by heat, pressure, friction or certain solvents, and such loss of water is probably a dehydration from the carbinol form to the quinoid form. The colours of dehydrated salts, containing either chromogenic or non-chromogenic metals, differ widely. The probable cause of colour of phenolphthalein salts is the quinoid chromophore. Hydration and dehydration are important influences effecting changes in colour. Isomerisation, neutralisation, addition, hydrolysis and ionisation attend phenolphthalein phenomena, but precede or are incidental to the transforming of colourless carbinol forms to the coloured quinoid form.

ESSENTIAL OILS

Florida Spearmint Oil.—Christensen and Hiner ("Journal of the American Pharmaceutical Association," 1932, 21, 147) have examined the essential oil distilled from *Mentha spicata* grown in Florida during 1929-30. The yield varied from 0.164 to 0.59 per cent., and the oil had the following characters:—Sp. gr. at 25° = 0.9215 to 0.9253; refractive index at 20° = 1.4825 to 1.4897; optical rotation at 25° = -56.09° to -59.07°; carvone content, 69.5 to 80.2 per cent.

Essential Oil of *Wintera Colorata*.—Melville and Levi ("Journal of the Society of Chemical Industry," 1932, 210 T) have published the results of their examination of the essential oil of *Wintera Colorata*, the work having been carried out in the University of Otago, Dunedin, New Zealand. The plant is a shrub growing to a height of about ten feet, and is distributed throughout the Southern Island. The leaves have a very hot taste. The yield of oil from the leaves was about 0.2 per cent., and the oil was far less pungent than would have been expected, since the leaves after distillation had lost all their hot taste. It is, therefore, probable that the pungent body is partially decomposed in distillation. The oil consists of terpenes, terpene alcohols and their esters, sesquiterpenes, and sesquiterpene alcohols and their esters. The terpenes consist of β -pinene, and dipentene with some active limonene. No α -pinene is present, which is unusual, as the two isomers almost invariably occur together naturally. The terpene alcohol fraction probably consists of a mixture of geraniol and citronellol with their esters. The third fraction consists of a mixture of sesquiterpenes which give no crystalline additive compounds. Dehydrogenation of this fraction gave a mixture of cadalene and azulene, so that some idea of the structure of the sesquiterpenes may be gathered. The higher boiling fraction consisted of sesquiterpene alcohols and their esters. One of the constituents is a crystalline substance which is probably a tricyclic alcohol (eudesmol?). The liquid constituents gave cadalene and


 The Progress of Pharmacy and Allied Sciences

azulene on dehydrogenation. The examination has not been sufficiently exhaustive definitely to establish the nature of the oxygenated constituents.

MATERIA MEDICA

Composition of Quinetum.—J. A. Goodson and T. A. Henry have investigated ("Quarterly Journal of Pharmacy and Pharmacology," 5, 2, 161) the composition of modern quinetum. A series of analyses has shown the difficulty of arriving at accuracy in this specialised work. The authors' seventh and final table is as follows:—

| | Quinetum | | | | | Prep. | Prep. |
|------------------------|-----------|-----------|-------------|-----------|-------------|-----------|-----------|
| | 1 | 2 | 2 (Corr) | 3 | 3 (Corr) | A | B |
| | Per cent. | Per cent. | Per cent. | Per cent. | Per cent. | Per cent. | Per cent. |
| Quinine .. | 32.1 | 18.5 | 17.4 | 14.7 | 13.9 | 21.6 | 29.4 |
| Cinchonidine .. | 36.9 | 25.7 | 25.3 | 10.9 | 10.5 | 20.1 | 23.6 |
| Quinidine .. | 0.4 | 3.2 | 6.2 | 3.8 | 4.4 | 8.9 | 1.6 |
| Cinchonine .. | 30.9 | 48.9 | 46.1 | 44.7 | 38.2 | 49.3 | 24.7 |
| Amorphous alkaloids .. | nil | nil | nil | 12.7 | 16.9 | nil | 8.5 |
| Moisture .. | 0.7 | 1.0 | 1.0 | 1.7 | 1.7 | 0.90 | 5.8 |
| Ash .. | 1.0 | 4.6 | 4.6 | 1.8 | 1.8 | 0.16 | 0.16 |

De Vrij's original quinetum is represented by preparation B, consisting of the total alkaloids of *Cinchona succirubra* bark, in which the crystalline alkaloids quinine, cinchonidine and cinchonine are present in approximately equal proportions. Quinetum No. 1 clearly represents a similar preparation without the amorphous alkaloids, and it conforms with the definition of "quinetum" suggested recently by the Malaria Commission of the League of Nations. Quinetum No. 2 and preparation B would come within the definition of the new mixture of cinchona alkaloids for which the Malaria Commission of the League of Nations has proposed the name "totaquina" and which must contain as a minimum 15 per cent. of quinine and 70 per cent. of crystallisable cinchona alkaloids and not more than 20 per cent. of amorphous alkaloids, 5 per cent. of ash and 5 per cent. of moisture. Preparation B contains 1.6 per cent. of quinidine, indicating that the bark used must have included some root bark, as the stem bark of this species does not contain quinidine.

Novadrenaline.—J. L. Svirbely and A. Szent-Györgyi (in a letter to "Nature," 3258, 541), announce the extraction of a substance which is apparently the precursor of adrenalin, and for which the name "novadrenaline" is proposed. The physiological action of the new substance is distinctly different to that of adrenalin. In particular, novadrenaline does not show the depressor effect which results with small doses of adrenalin, a definite pressor effect being still exerted with novadrenaline when dosage is reduced to one-fiftieth of the depressor dose of adrenalin. In larger doses novadrenaline always produces a higher rise of blood pressure than the corresponding amount of adrenalin. The duration of the pressor effect affords another striking difference. Whereas with adrenalin the blood pressure quickly returns to its original level after attaining its maximum, the return is much slower with an equal amount of novadrenaline, the curve of pressure rise exhibiting a wide "plateau" of steady (increased) pressure for several minutes. The available evidence suggests that novadrenaline is a low molecular weight ester of adrenalin (possibly acetyladrenalin) and that adrenalin is a decomposition product of this natural substance. This would account for the known difference in action between adrenalin and extracts of fresh adrenal glands. In preparing novadrenaline, *post-mortem* enzymic action is minimised by rapid excision and cooling of the gland material. The minced medulla was extracted by twice its weight of $\frac{1}{2}$ -per-cent. trichloroacetic acid, the suspension being quickly heated to 80°C . and then cooled rapidly. The neutralised extract, after concentration to a syrup *in vacuo*, was treated fractionally with methyl alcohol and acetone. Novadrenaline was precipitated from the acetone solu-

tion as a ferrous complex and liberated in water by hydrogen sulphide. Novadrenaline is reasonably stable if kept cool. The general chemical properties of novadrenaline and adrenalin are very similar. The esterifying radicle appears to be attached to the alcoholic side-chain, this being supported by novadrenaline losing its specific activity on treatment with hydrochloric acid. The presence of the *ortho* di-hydroxy grouping in novadrenaline is shown by the characteristic colour reaction with iron compounds. The destruction of physiological activity by formaldehyde indicates that the imino group is also free. The discovery of novadrenaline should contribute materially to knowledge of the action of the true sympathetic nervous system.

MEDICINE

Pigmentation Caused by Freckle Cream.—J. B. Blashill reports ("Journal of the American Medical Association," 98, 25, 2200) a case of a female patient, aged forty-seven, who attended a clinic on account of a dark discolouration of the face and neck. On being questioned, she explained that she had used for eighteen months a proprietary cream for the removal of freckles. The cream was found to contain ammoniated mercury and bismuth subnitrate in a cold cream basis. Treatment is of slight value on account of the depth of the granules of pigment formed.

Fish-Liver Extract in Pernicious Anæmia.—L. S. P. Davidson has devised, with the assistance of experts from the Scientific and Industrial Research Station, Torry, Aberdeen ("British Medical Journal," 3737, 347), a process for obtaining a haemopoietic extract from the raw livers of whiting, haddock and other fish. The quantity obtained from 1,000 gm. of liver is about 50 gm. Judged by the clinical improvement in nine cases of pernicious anæmia (summaries of which are given), the extract is of remarkable potency. The economic importance of this preparation to the patient, the manufacturer, and the fishing industry is discussed.

Treatment of Hypertony.—I. Harris discusses, with the help of three tables ("Lancet," 5689, 560), the treatment of hypertony. He emphasises a previous finding that the administration of certain drugs for the complaint causes a disturbance of equilibrium of the blood constituents. His patients were kept in bed. During the first week no treatment was given. During the second week Collosol sulphur was injected, 3 c.c. daily. During the third week six pints of water was given daily. The patients were kept on a standard diet all the time. In other cases the procedure was altered. In the first week the patient had no treatment; in the second week he was put on salt- and sugar-free diet; in the third week a diet consisting mainly of carbohydrate, and in the fourth week a pure meat diet was given.

Treatment of Malignant Disease.—W. Stewart ("British Medical Journal," 3732, 98) is unable to confirm the claim of a previous investigator for a certain amount of success in the treatment of malignant disease by the administration of pituitrin and the ovarian hormone oestrin (theelin), combined with a diet low in carbohydrate. In none of the cases treated could any improvement in the malignant condition be attributed to this treatment. The pain which follows the administration of pituitrin, at first localised to the area of tumour growth and then radiating therefrom, aroused some interest. If such pain were present constantly and only in malignant conditions it would prove of definite value in the pre-microscopical diagnosis of malignancy. Unfortunately it is not constantly present in the same case after each injection, and it is entirely absent in other cases of obvious malignancy. It is much too variable a factor to be of any definite diagnostic value.

Salicylates in Rheumatic Fever.—The limitations of treatment with salicylates in cases of rheumatic fever

have been investigated ("Journal of the American Medical Association," 98, 23, 1978) by A. M. Master and A. Romanoff. Thirty-three patients who received adequate salicylate therapy and thirty who served as controls were compared clinically and as to detailed electrocardiographic evidence of myocardial involvement. No essential difference was discovered. In the rheumatic fever patients, whether or not salicylates were administered, a 100 per cent. involvement of the myocardium was found. The duration of hospital stay in the control group was forty-six days; in the salicylate group forty-two days. One death occurred in each group. The electrocardiographic changes indicative of myocardial involvement revealed a surprising coincidence of changes in the two groups, qualitatively and quantitatively. There is no evidence that salicylates prevent cardiac complications or shorten the duration of hospital stay, although they are at present the most efficient antipyretics and analgesics for the treatment of acute rheumatic fever.

Irradiated Milk in Rachitis.—A. F. Hess and J. M. Lewis have carried out a lengthy investigation ("Journal of the American Medical Association," 99, 8,647) into the antirachitic properties of irradiated milk. Pasteurised milk was activated by means of carbon arc rays, the radiant energy being carefully controlled and measured. It was found that sixteen-seconds' exposure was sufficient to render the milk highly antirachitic. The great advantage of using activated milk, both fluid and dry, in the prophylaxis of rickets is that this measure furnishes an automatic method of therapy and provides calcium and phosphorus. Laboratory tests of this milk showed that it contained a comparatively small number of antirachitic units as judged by the standard rat assay. In view of the excellent clinical results, it is evident that the established method of assay cannot be relied on to appraise the value of irradiated milk for infants. This discrepancy in standardisation was found also to hold true for tests of milk from cows which had been fed on irradiated yeast ("yeast milk"). The indications for (1) irradiated milk (fluid and dry), (2) "yeast milk," (3) cod-liver oil, (4) viosterol, (5) irradiated yeast, (6) direct ultraviolet irradiation are discussed. Some of these measures are of value in the prevention and others for the cure of rickets, some for urban and others for rural communities.

Injection Treatment of Inguinal Hernia.—St. G. B. D. Gray gives the following formula for a sclerosing fluid ("British Medical Journal," 3730, 12) for the treatment of inguinal hernia, attributed to I. Mayer, of Detroit:

| | | | | | |
|--|-----|-----|-----|-----|-----------|
| Zinc sulphate | ... | ... | ... | ... | 1 dr. |
| Phenol crystals | ... | ... | ... | ... | 6 dr. |
| Glycerin | ... | ... | ... | ... | 4 fl. dr. |
| Cinnamon water | ... | ... | ... | ... | 1 fl. oz. |
| Fl. ext. pinus canadensis (dark) | ... | ... | ... | ... | 5 fl. dr. |
| Sterilised chemically pure redistilled water | ... | ... | ... | ... | 2 fl. oz. |

Dissolve the zinc sulphate in the cinnamon water. Liquefy the phenol crystals by heating. Add the glycerin. Shake thoroughly until mixed and cooled; then add the distilled water and finally the fluid extract of *pinus canadensis*. Shake thoroughly. Allow the fluid to stand for about a week, agitating the mixture several times a day. Subsequently it should be filtered. Before injecting, boil the solution in a glass tube or place in the sterilizer in a porcelain container. When cold the solution is muddy, but on heating it becomes clear and transparent, and looks like a rich port wine, hence the necessity for the clear glass, for if amber containers are used it is difficult to see when the solution has become clear. On drawing up the liquid into the syringe it becomes cooler, and throws down a very fine precipitate, which passes without difficulty through a No. 17 hypodermic needle. The dose is 0.5 c.c. for the first injection and 1 c.c. for subsequent injections.

A discussion of the advantages of the treatment and of the cases in which it is unsuitable is added by the author.

OPTICS

Ciliary Circulation.—R. A. Kerry ("British Medical Journal," August 13), in a paper on this subject, shows that aqueous humour passes from the eye to a greater extent by the vorticoses than by the canal of Schlemm. The amounts absorbed by the veins from interstitial fluid and from the aqueous humour have not been determined.

Control of Myopia.—W. H. Leudde ("American Journal of Ophthalmology," July, 1932) records clinical observations in cases of progressive myopia in which good effects have been obtained from dissociation of the two eyes in near vision through monocular cycloplegia by instillation of 1 per cent. solution of atropine. A detailed report is given of one case treated over a period of eight years, and it is shown that progression of the myopia was checked during the time of treatment. The author states that monocular cycloplegia is not to be regarded as a substitute for, but as a temporary and occasional adjunct to, the full correction.

Refraction in Diabetes.—R. A. Greaves ("British Medical Journal," August 13), in a paper on temporary changes in the refraction of the eye in diabetes, reports on two cases where there had occurred a marked change in the refraction without any observable change in the lens. On investigation the patients were found to be diabetic. It appeared that a change in the direction of myopia took place during hyperglycæmia, and in the direction of hypermetropia during hypoglycæmia. Astigmatic changes might also occur. The probable explanation was a transient change in the refractive index of the lens, depending on changes in the amount of fluid in the lens substance.

PHARMACOLOGY

Toxicity of Pure Methyl Alcohol.—R. W. Hufford ("Journal of the American Pharmaceutical Association," 21, 6, 548) gives results of biological tests on rats which show that very pure methanol (methyl alcohol) is slightly less toxic than pure ethanol (ethyl alcohol) in either single or repeated doses. Eye irritation was observed only in the case of some animals which died from methanol poisoning. However, the rats that did not die regained strength and weight rapidly, their appearance being otherwise normal in every respect.

The Constituents of Ergot.—C. Moir gives details ("British Medical Journal," 3728, 1119) of experiments indicating that the value of ergot in cases of labour is due to an unidentified constituent rather than to ergotoxin, ergotamine, histamine or tyramine. He points out that the rapid action of preparations of the whole drug was an important factor in securing its general adoption by medical men early in the nineteenth century; and that the much slower action of the alkaloids in causing uterine contraction would probably have been overlooked or attributed to some other source. By means of a modification of Bourne and Burn's apparatus for studying the effect of oxytoxic drugs, the author has clearly shown the difference between the action of samples of extracts (solid and liquid) of the whole drug (or samples of defatted powder) and that of the alkaloids. Sir Henry Dale adds a note of commendation.

The Toxic Effects of Radium.—H. A. Colwell and S. Russ reinforce ("Lancet," 5,682, 221) the findings of H. S. Martland in the luminous watch-dial workers' poisoning some years ago, and add that radium quackery in this country has resulted in serious damage to health. In many samples which have passed through the authors' hands it has been possible to show that quantities of radio-active material are present; so that the charge against the vendors of these articles is not that they do not contain what they claim to, but the far more serious charge that the articles actually contain a deadly poison. It is urged that all radio-active prepa-

tions designed for internal consumption or intimate tissue contact—such as radium-impregnated water, radium hair restorer, radium pills, or radium chocolate—should (if their sale cannot be absolutely prohibited) be clearly labelled "Poison" and generally made to comply with the regulations governing the sale of poisons.

Pharmacology of Taxine.—T. Bryan-Brown contributes to the "Quarterly Journal of Pharmacy and Pharmacology" (5, 2, 205) a study of the pharmacological actions of taxine, an alkaloid said to have the composition $C_{37}H_{51}O_{10}N$. It seems fairly well established that only the old leaves and the seeds of the yew contain large quantities of taxine, the pulp of the berries containing practically none. The minimum lethal doses for the sample of taxine, when freshly prepared, were for:—Rabbits (by intravenous injection), 0.002-0.003 gm. per kilo; mice (by intraperitoneal injection), 0.012 gm. per kilo; guinea-pigs (by subcutaneous injection), 0.012 gm. per kilo; frogs (by injection into dorsal lymph sac), 0.017 gm. per kilo. The minimum lethal doses of taxine, after it had been kept for ten months, had risen by 60 per cent. Taxine first stimulates and then depresses respiration. It causes death from asphyxia due to cardiac and respiratory failure. Apart from the action on respiration, taxine has no action on the central nervous system.

Antiseptic Value and Toxicity of Menthol Isomers.—F. Wokes has investigated ("Quarterly Journal of Pharmacy and Pharmacology," 5, 2, 233) the antiseptic value and toxicity of *d*-menthol, *dl*-menthol, *dl*-*iso*-menthol and *dl*-*neo*-menthol, compared with those of the naturally occurring *l*-menthol. The toxic action was tested on mice, and the bactericidal potency on cultures of *B. coli* and *Staphylococcus pyogenes aureus*. The average lethal doses were, in mgm. per gm. body weight:—*l*-menthol 3.4, *dl*-(racemic) menthol 3.1, *dl*-*neo*-menthol 4.0, *dl*-*iso*-menthol 3.0. On *B. coli* the relative germicidal activities at room temperature over periods of half to six hours, expressed as the percentage of that of *l*-menthol under the same conditions, were: *d*-menthol 145-154, *dl*-(racemic) menthol 115-126, *dl*-*iso*-menthol 90-100, *dl*-*neo*-menthol 166-174. *l*-menthol had from ten to twelve times the activity of phenol, and the other isomers gave corresponding values. On *Staphylococcus pyogenes aureus* the relative germicidal activities expressed in the same manner were:—*d*-menthol 137-185, *dl*-(racemic) menthol 120-140, *dl*-*iso*-menthol 132-175, *dl*-*neo*-menthol 128-170. *l*-menthol had from five to eight times the activity of phenol, and the other isomers gave corresponding values ranging from seven to twelve times that of phenol. An increase in the experimental temperature of about 10° C. produced a small increase in the activity of phenol, but a considerably larger increase in the activity of the menthols. Addition of 0.1 per cent. of tragacanth reduced the bactericidal activity of *dl*-*neo*-menthol to less than half.

Mercurochrome and Some Other Antiseptics.—A lengthy study of the efficiency of mercurochrome (and incidentally of some other antiseptics) by W. F. von Oettingen and others appears in "The Journal of the American Medical Association," 99, 2, 127. The authors' conclusions are that mercurochrome, when once fixed on the surface of the tissues, develops no bacteriostatic action in contact with bacterial cultures. It penetrates only into the dead or dying mucous membranes of different organs, such as bladder, vagina and digestive tract, and it may diffuse through the cornea when in contact for a sufficient period. It does not penetrate the living skin but is fixed in the most superficial layers of the epithelium, and it does not penetrate or stain normal muscular tissue. It penetrates necrotic and dead tissue and stains them deeply and permanently. The tissue toxicity of mercurochrome is relatively low, but the 5-per-cent. aqueous solution is distinctly injurious as judged by excised ciliated mucous membranes. Mercurochrome cannot be relied upon to destroy bacteria that have penetrated into the living tissue of a wound or of the skin; it could do no more than disinfect the

surface and the necrotic tissue. This limitation is shared more or less by all antiseptics, so that no substance can be properly called a safe and certain wound antiseptic. No antiseptic takes the place of thorough cleansing and surgical treatment. When these are not practical, for "first aid" or for very superficial wounds, antiseptics are probably better than no treatment at all. The antiseptic efficiency of mercurochrome is not outstanding, and for skin disinfection the aqueous solution is distinctly inferior. The absence of irritation may be an advantage, especially with open wounds, and for prolonged treatment, but its limitations should always be borne in mind.

PHOTOGRAPHY

Amounts of Elon and Hydroquinone in a Developer.—A. M. Gundelfinger ("Journal of the Franklin Institute," August 1932) shows that there are an infinite number of combinations of elon and hydroquinone which will satisfy the equation for any definite gamma. The optimum concentration, however, is not necessarily that which produces the least expensive developer. Diagrams given show that elon is much the more powerful developing agent, but a lesser concentration of it is required to produce a definite degree of development. On the other hand, it is possible to utilise a concentration of elon which is too high for economy. The method of calculating the optimum concentrations of both developing agents for maximum economy is described.

Polychrome Photography.—F. E. Ives ("Journal of the Optical Society of America," April, 1932) describes a simplified process for making colour photographs. By the method described only two negatives are made, on two plates or films in face contact, in an ordinary plate camera. From these are prepared two prints, one on paper and one on transparent film. The plates used are a green-blue sensitive and a panchromatic. This bi-pack can be exposed in an ordinary camera and is fast enough to permit snapshot exposures in direct sunlight. The colour print combination consists of a blue-toned ordinary bromide paper print from the panchromatic negative and a print on positive film from the other negative. The latter is developed to a black image and bleached to a transparency in a bath which selectively hardens the gelatin, then developed in hot water and cleared in hypo to produce a tenuous colourless relief image which is coloured up by immersion in a suitable dye bath. The bromide print is converted to a cyan blue in a bath of potassium ferricyanide, potassium bromide, oxalic acid, sodium chloride and sesquichloride of iron. The prints when dry are superimposed and cemented with amyloid acetate.

VETERINARY MEDICINE

Louping-ill.—Gordon, Brownlee, Wilson and MacLeod ("Journal of Comparative Pathology and Therapeutics," June, 1932) state that it may now be taken as proved that louping-ill is due to a distinct filter passing virus. The clinical manifestations of typical louping-ill are due to infection of the central nervous system with this virus. The virus has been detected in the blood in cases in which symptoms of louping-ill did not subsequently develop. The symptoms of infection in such cases is a fibrile reaction occasionally followed by death. The above data suggests that for the occurrence of typical louping-ill invasion of the central nervous system by the virus is essential. It will appear that the accessory conditions favour such invasion, e.g., the occurrence of tick-borne fever. Recovery from infection, either naturally or experimentally produced, results in immunity to louping-ill. The evidence so far indicates that the use of a living virus for prophylactic immunisation is not a safe procedure. As a result of the experimental investigation of louping-ill it has been shown that ticks (*Ixodes ricinus*), which transmit the virus, also harbour another infective agent which causes fibrile disease in sheep—a disease distinct from louping-ill. The nature of the causal agent is so far unknown.

Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, September 22

SOME markets have reacted after the recent general improvement in values, but in these instances the tone is steady at the slightly lower levels. In other directions business has been active and further appreciation in values is recorded, particularly in Japanese products, and some essential oils and crude drugs where spot supplies have become limited. The general volume of business has been moderate and is still largely confined to small quantities. There are very few weak items in the markets, but a number are definitely firm and tend to advance. In pharmaceuticals, business has moved along steadily and there is little in the way of price alteration to record. There are some cheap offers of phenacetin; phenolphthalein is steady at the new price. Caffeine is being cut on spot. Home makers' quoted price for tartaric acid is again reduced. In crude drugs, one of the active markets has been Japanese menthol, which closes firm at higher rates. Cascara sagrada is firm and again dearer for shipment. There should be rather more interest than usual in this week's drug auction, particularly in such products as honey, ipecacuanha, buchu and, possibly, senna. Cod-liver oil continues in active demand for shipment. Business in essential oils has been fairly good on the whole, with Ceylon citronella active and firm at dearer figures. Madagascar clove oil has been sold in good quantities. Cayenne boîte de rose is practically unobtainable. New crop French lavender is firm. Japanese peppermint has had a good week and closes firm at higher prices for spot and shipment, and the latter market is reported to be strong. The American oil continues firm and tends to advance. Business in industrial chemicals is moderately good and the general tone is steady. Red and white lead prices are dearer. Acetone, acetic acid and formaldehyde have been in good demand. In coal-tar products, the call for carbolic acid crystals has been increasing, and pitch is firm at high rates; in other directions the market is rather dull, but steady.

Exchange Rates on London

THE following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

| Centre | Quoted | Par | September 22 | Value of the £ |
|---------------|------------|--------|--------------|----------------|
| Amsterdam .. | Fl. to £ | 12.107 | 8.61½ | 14/2½ |
| Berlin .. | Mks. to £ | 20.43 | 14½ | 14/2½ |
| Brussels .. | Belga to £ | 35 | 24½ | 14/3 |
| Copenhagen .. | Kr. to £ | 18.159 | 19½ | 21/2½ |
| Lisbon .. | Esc. to £ | 110 | 110 | 20 0 |
| Madrid .. | Ptas. to £ | 25.22½ | 42½ | 33 4 |
| Milan .. | Lire to £ | 92.46 | 67½ | 14/5 |
| Montreal .. | Dol. to £ | 4.86½ | 3.86½ | 15/10½ |
| New York .. | Dol. to £ | 4.86½ | 3.46½ | 14/2½ |
| Oslo .. | Kr. to £ | 18.159 | 19½ | 21/10½ |
| Paris .. | Fr. to £ | 124.21 | 88½ | 14/2½ |
| Prague .. | Kr. to £ | 164.25 | 117 | 15 0½ |
| Stockholm .. | Kr. to £ | 18.159 | 19.50 | 21/5½ |
| Warsaw .. | Zloty to £ | 43.38 | 31 | 14/3½ |
| Zurich.. | Fr. to £ | 25.22½ | 17.94½ | 14/2½ |

Bank rate 2 per cent.

Pharmaceutical Chemicals, etc.

A FAIRLY good business has been transacted, although most of it has been done in small lots. Prices are holding quite steady. Phenacetin is being cut in some quarters. Phenolphthalein is closing up to the fixed prices, as there is very little outside material. There is no change in prices for salicylates. Tartaric acid is again quoted cheaper by the home makers.

ACETANILID.—The market is quiet but steady: B.P. crystals and powder, 1s. 5½d. to 1s. 8d. per lb. as to quantity.

AMIDOL.—Business is limited; quoted prices unchanged: 56 lb., 7s. 3d.; 28 lb., 7s. 6d.; 14 lb., 7s. 11d. per lb., in 7-lb. tins.

AMIDOPYRIN.—A little more inquiry this week; spot offers are cheaper than forward: spot, crystals, two cwt., 18s. 2d.; less than two cwt., 18s. 6d. per lb., with powder 2d. per lb. extra.

AMMONIUM BENZOATE is steady, with a limited small-sized business moving: quoted from 3s. 4d. to 3s. 6d. per lb.

ASPIRIN.—Makers' and dealers' prices are well maintained and business is quite good. Home trade: ten cwt., 2s. 7d.; five cwt., 2s. 8d.; one cwt., 2s. 8½d.; 28 lb., 2s. 9d.; 14 lb., 2s. 10d.; 7 lb., 3s. per lb. Export to Colonies and British Possessions: ten cwt., 2s. 7d.; five cwt., 2s. 8d.; one cwt., 2s. 8½d. per lb. f.o.b.; less than one cwt., 2s. 9d. per lb. ex works.

BARBITONE.—Spot offers are at cheap rates compared with the forward values: spot, one cwt., 10s. 9d.; 56 lb., 11s.; smaller parcels, up to 11s. 3d. per lb.

BENZOIC ACID (B.P.)—A fair business is being done at steady prices: quantities ex works, 1s. 9½d.; spot parcels, 1s. 10d. to 2s. per lb. ex store.

BENZONAPHTHOL has remained rather quiet, with spot quoted at 3s. 5d. to 3s. 6d. per lb.

BROMIDES.—This market is keeping steady as quoted by makers and dealers; business is moderate: ammonium, not less than five cwt., 1s. 9d.; one cwt., 1s. 10d.; smaller quantities, 2s. 1d. per lb.; potassium, B.P. crystals and granular, not less than five cwt., 1s. 6d.; one cwt., 1s. 7d.; smaller quantities, 1s. 10d. per lb.; sodium, B.P., not less than five cwt., 1s. 8d.; one cwt., 1s. 9d.; smaller quantities, 2s. per lb., net, without engagement. Special prices for larger quantities.

BUTYL CHLORAL HYDRATE is steady on a slow market: spot, 14 lb., 8s.; 7 lb., 8s. 3d.; 1 lb., 8s. 6d. per lb., in 1-lb. bottles.

CAFFEINE.—A little more inquiry is being received, with quotations at very keen prices: pure alkaloid, 5s. 6d. to 6s. per lb.; citrate, 4s. 4d. to 4s. 9d. per lb. as to quantity.

CALCIUM LACTATE.—Business is still rather limited on a keen market: spot, one cwt., 1s. 1d.; 56 lb., 1s. 2d.; 28 lb., 1s. 2½d.; smaller parcels, up to 1s. 6d. per lb.

CHLORAL HYDRATE.—Home makers' prices are unchanged: duty-paid crystals, in 14-lb. free containers, five cwt., 3s. 4d.; one cwt., 3s. 5d.; 56 lb., 3s. 6d.; 28 lb., 3s. 7d.; 14 lb., 3s. 8d.; 28-lb. jars, one penny per lb. extra.

CITRATES.—Home makers' prices are as follows:—

| | Under 4 lbs. | 4 lbs. and under 7 lbs. | 7 lbs. and under 14 lbs. | 14 lbs. and under 28 lbs. |
|--------------------------------|--------------|-------------------------|--------------------------|---------------------------|
| Ferrri et ammon. cit., B.P. | s. d. | s. d. | s. d. | s. d. |
| (brown) .. | 2 5 | 2 3 | 2 1 | 1 11 |
| Potass. citras, B.P.C. 1911 .. | 2 3 | 2 1 | 1 11 | 1 9 |
| Sodii citras, B.P.C., 1911 .. | 2 0 | 1 10 | 1 8 | 1 6 |
| " B.P.C., 1923 .. | 2 4 | 2 2 | 2 0 | 1 10 |

28 lb., 3d. per lb. less. Special prices for quantity.

CITRIC ACID (B.P. CRYSTALS).—Home makers are now quoting at 10½d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers offering at competitive prices.

CREAM OF TARTAR.—The price quoted for 99 to 100 per cent. for home trade by the makers is unchanged at 85s. per cwt., less 2½ per cent. discount, nominal and without engagement.

CREOSOTE (B.P.) is quoted on spot from 2s. 1½d. to 2s. 3d. per lb. as to quantity; market is dull.

CREOSOTE CARBONATE.—Dealers' spot prices are at about 8s. 6d. to 10s. per lb. as to quantity.

GUAIACOL CARBONATE remains rather dull: spot, one cwt., 8s.; 56 lb., 8s. 1d.; 28 lb., 8s. 2d.; smaller parcels, up to 8s. 6d. per lb.

HEXAMINE.—Spot supplies are offering at keen prices: two-cwt. lots, 2s. 3d.; one cwt., 2s. 3½d. up to 2s. 6d. per

lb. for small quantities. Forward prices on a gold basis are unchanged.

HYDROQUINONE.—Importers' prices are maintained; business quiet: ten cwt., 4s. 8½d.; five cwt., 4s. 9½d.; two cwt., 4s. 10d.; one cwt., 4s. 10½d.; 56 lb., 4s. 11½d.; 28 lb., 5s. 1½d.; 14 lb., 5s. 2½d.; 7 lb., 5s. 5½d. per lb., carriage paid.

LACTIC ACID (B.P.) is about steady on a keen market; business is moving on limited lines: quantities in carboys, 1s. 5½d. to 1s. 6d.; smaller quantities in winehesters, 1s. 7d. to 1s. 8½d. per lb.

METHYL SALICYLATE (B.P.) meets with a sustained demand, with makers' and dealers' prices very steady: one ton and over, 1s. 4½d.; ten cwt., 1s. 5d.; five cwt., 1s. 5½d.; one cwt., 1s. 6d.; less than one cwt., 1s. 6½d.; smaller quantities in bottles, up to 2s. per lb.

METHYL SULPHONAL.—The spot market is steady; inquiry a little better: two cwt., 19s. 3d.; one cwt., 19s. 9d.; 56 lb., 20s. 3d.; small parcels, 21s. per lb.

METOL has been in limited demand, with the market steady: 56 lb., 9s. 3d.; 28 lb., 9s. 6d.; 14 lb., 9s. 9d.; 7 lb., 10s. 9d. per lb., in tins; bottles extra, carriage paid. Wholesale distributors' prices for small quantities at higher prices.

MILK SUGAR continues to meet with a very fair inquiry and the market is now steady: one ton, 50s. 6d.; ten cwt., 51s. 6d.; two cwt., 52s. 6d. per cwt., in two-cwt. cases.

PARAFORMALDEHYDE.—The market is receiving fair attention, with keen prices for bulk quantities: 100 per cent. powder, quantities in kegs, 1s. 1½d. to 1s. 2d.; smaller parcels up to 1s. 7d. per lb.

PARALDEHYDE meets with occasional business: quantities in demijohns, 1s. 1½d.; winehesters, 1s. 4d. per lb.; higher prices for small quantities.

PHENACETIN.—There are still a few cheap spot sellers; business is moving on limited lines; forward is dearer: spot, crystals, ten cwt., 5s. 3d.; five cwt., 5s. 4½d.; two cwt., 5s. 5d.; and less, up to 6s. 3d. per lb., with powder 2d. per lb. extra.

PHENAZONE is about steady, except for an occasional cheap seller: spot, crystals, ten cwt., 9s. 7½d.; five cwt., 9s. 10d.; two cwt., 10s.; and less, 10s. 4½d. per lb., with powder 2d. per lb. extra.

PHENOLPHTHALEIN.—The agreed scale of prices notified last week is operating and there is practically no second-hand offering: five cwt. and over, 3s. 10d.; two cwt., 3s. 11d.; one cwt., 4s.; 28 lb., 4s. 3d.; 14 lb., 4s. 6d.; 7 lb., 4s. 9d. per lb.; small lots, 5s. per lb.

POTASSIUM PERMANGANATE (B.P.) is meeting with the average demand in small quantities: quantities in drums, 8½d. to 9d.; druggists' parcels, 9½d. to 10d. per lb.

POTASSIUM SULPHOGUAIACOLATE.—Dealers are finding inquiry slow: spot quoted from 4s. 9d. to 5s. per lb. as to quantity.

PYROGALLIC ACID is steady; business moderate: one cwt., 6s. 9d.; 56 lb., 7s.; 28 lb., 7s. 3d.; 14 lb., 7s. 9d.; 7 lb., 8s. 6d. per lb., in 7-lb. tins.

QUININE SULPHATE.—The Convention price remains at 2s. 4d. per oz., carriage paid on bulk quantities.

RESORCIN.—A sustained demand is reported and dealers' prices are steady: crystals, one cwt., 4s. 6d.; 56 lb., 4s. 7d.; 28 lb., 4s. 8d.; 14 lb., 4s. 10d.; 7 lb., 5s.; less than 7 lb., 5s. 6d. per lb., with powder 3d. per lb. extra.

ROCHELLE SALTS.—Makers' prices are steady: powder, five cwt. or over, in one delivery, 82s. 6d.; less than five cwt., 85s.; less than one cwt., 87s. 6d. per cwt., carriage paid; crystals, 2s. 6d. per cwt. extra; pulv. seidlitz, five cwt. or over, in one delivery, 66s. 3d.; less than five cwt., 68s.; less than one cwt., 70s.; double, 73s. 3d., 75s. 6d. and 77s. 6d. per cwt., carriage paid. Special prices for quantities and contracts.

SACCHARIN.—The controlled price is unchanged: 550, 1 lb., 37s. 6d. per lb., duty paid, with rebates for quantities.

SALICYLIC ACID (B.P.)—The market is firm at makers' prices; business fair: one ton, 1s. 5d.; ten cwt., 1s. 5½d.; five cwt., 1s. 6d.; one cwt., 1s. 6½d.; small parcels, up to 2s. per lb.

SALOL.—The market is moderately busy and dealers' prices are steady: crystals, two cwt., 5s. 2½d.; one cwt., 5s. 4½d.; 56 lb., 5s. 6d.; smaller parcels, 5s. 7½d. per lb.; powder, 2d. per lb. extra.

SODIUM BENZOATE (B.P.) continues to find a good volume of business on a keen market: bulk quantities, about 1s. 7d.; cwt. lots, 1s. 7½d.; smaller parcels, up to 2s. per lb.

SODIUM DIETHYLBARBITURATE is seldom called for, but dealers' prices are steady: spot, one cwt., 12s. 9d.; 56 lb., 12s. 10d.; 28 lb., 13s.; 14 lb., 13s. 2d.; 7 lb., 13s. 3d.; smaller parcels, up to 13s. 9d. per lb.

SODIUM SALICYLATE (B.P.)—The market is fairly bright; dealers' and makers' prices are level. Home trade, powder: two tons, 1s. 10d.; one ton, 1s. 10½d.; ten cwt., 1s. 11d.; five cwt., 1s. 11½d.; one cwt., 2s.; 28 lb., 2s. 1d.; 14 lb., 2s. 3d. per lb., with crystals 1d. per lb. extra.

SULPHONAL.—A little more inquiry this week, with dealers' spot prices steady: crystals, two cwt., 15s. 7d.; one cwt., 16s.; 56 lb., 16s. 3d.; small parcels, up to 17s. per lb., with powder 2d. per lb. extra.

TANNIO ACID (LEVISS).—The market is well held as quoted at 3s. 6d. to 3s. 9d. per lb. as to quantity.

TARTARIC ACID (B.P. CRYSTALS).—Makers' quoted price shows a further reduction this week, being now at 10½d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers are quoting at keen prices.

THEOBROMINE.—The demand is small: pure, 5s. 3d. to 5s. 6d.; sodium salicylate, 5s. to 5s. 4d. per lb.

THYMOL continues about steady and occasional business is being done: synthetic, fine white, one cwt., 6s.; 56 lb., 6s. 1½d.; 28 lb., 6s. 3d.; 14 lb., 6s. 4½d. per lb.; ex ajowan seed, one cwt., 7s. 6d.; 56 lb., 7s. 7½d.; 28 lb., 7s. 9d.; 14 lb., 8s. per lb.

VANILLIN.—Except for one or two cheaper offers the market is steady; business moderate: ex guaiacol, one ton, 14s. 3d.; ten cwt., 14s. 6d.; five cwt., 14s. 9d.; three cwt., 15s.; one cwt., 15s. 3d.; 56 lb., 15s. 6d.; 28 lb., 15s. 9d.; 14 lb., 16s.; less, 16s. 3d. per lb.; ex clove oil, 16s. to 18s. per lb. as to quantity, from one ton to less than 14 lb.

Crude Drugs, etc.

A REPORT of the drug auction is given at the end of the Trade Report.

AGAR-AGAR.—Business has been limited; market unchanged: spot, Kobe No. 1, 2s. 11d.; No. 2, 2s. 9d.; Yokohama No. 1, 2s. 9d. per lb. Shipment, Kobe No. 1, 2s. 2d.; No. 2, 1s. 10d.; Yokohama No. 1, 1s. 10d. per lb. c.i.f.

ANTIMONY is keeping steady with values level on the week: Chinese, crude, spot, £16; shipment, £14 10s. c.i.f. Chinese oxide, spot, £27; shipment, £20 10s. c.i.f.

ARNICA FLOWERS.—Spot supplies of Montana are being offered at 10½d. per lb.

CAMPHOR.—The spot market is steadier and business has been better. Japanese slabs, 2s. 4½d.; tablets, 3s. per lb.; shipment, slabs, 1s. 10½d.; flowers, 1s. 11d.; tablets, 2s. 3½d. per lb. c.i.f. English refined is quoted unchanged: flowers, one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz. and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; ½ oz., ¾ oz. and ¼ oz., 3s. 6d. per lb.; special prices for contracts for quantities.

CASCARA SAGRADA.—The shipment market continues firm and is again dearer at fully 44s. per cwt. c.i.f., in car-load lots. Spot is firm: 1931 peel, 57s. 6d.; 1932 peel, about 51s. per cwt.

CHAMOMILES.—The market is steady with good, white flowers quoted at 145s.; No. 2 at 120s., and brownish at 115s. per cwt., landed and duty paid.

CLOVES.—The market has been quiet and shipment is slightly easier. Zanzibar, spot, 7½d.; shipment, September-October, 6½d. per lb. c.i.f. Madagascar, spot, 7½d. per lb. Market is steadier at the close.

The landings of Zanzibar in London during the week ended September 17 were *nil* and the deliveries 66, leaving a stock of 1,046, against 621 in 1931. From January 1 to date landings of Zanzibar have been 4,401, against 1,541 in 1931, and the deliveries 5,312, against 1,913 in 1931. Landings of Madagascar for the week ended September 17 were *nil* and the deliveries three, leaving a stock of 1,460, against 1,134 in 1931. Landings of Madagascar this year to date have been 814, against 2,320 in 1931, and the deliveries 361, against 2,092 in 1931.

COCOA BUTTER is quoted slightly cheaper this week with prime English at 8½d. to 10½d. per lb., as to quantity.

COCONUT (DESICCATED) is steady, but business has not been so good. Spot, fine, 24s.; medium, 23s. 6d.; shipment, halves, September-October, 22s. 3d. per cwt., c.i.f.

COD-LIVER OIL.—The shipment market for finest Lofoten steam-refined non-freezing medicinal oil is firm at 87s. 6d. to 88s. 6d. per barrel, c.i.f. Some brands may be cheaper. Shipments up to September 19 totalled 69,218 barrels compared with 50,597 barrels at the same time last year. Business continues on a more than average scale. Spot, from 100s. to 102s. 6d. per barrel, ex wharf, duty paid.

GELATIN is meeting with a fair business, and the market is steady: spot, gold leaf, 2s. 2d.; silver leaf, 2s.; bronze leaf, 1s. 8½d.; thin leaf, 1s. 7½d. per lb. in cwt. cases.

GENTIAN.—Dealers are quoting spot at about 45s. per cwt.; supplies restricted.

GINGER.—West African on spot is quoted dearer, but the market is dull: spot, 24s. 6d.; for arrival, 22s. 9d. per cwt., c.i.f. Jamaican is firm as quoted from 65s. to 100s. per cwt. as to quality. Stocks of Jamaican are down to 2,869 packages, against 5,404 at the same time last year, and 9,500 for the previous year.

HENBANE.—Spot supplies are being offered at about 40s. per cwt.

LVCOPODIUM.—Dealers are quoting spot supplies at about 3s. per kilo.

MENTHOL.—This market has been active and the tone at the close was firm at dearer prices. K/S brands, 12s. to 12s. 3d. per lb., as to quantity. Shipment, October-December, 10s. 9d.; January-March, 10s. 9d. per lb. c.i.f. Shipment is firm with active inquiry.

MERCURY.—A very fair volume of business has been transacted and the market is firm as quoted for spot at the higher prices of £10 2s. 6d. to £10 10s. per bottle, ex warehouse, as to quantity.

OPIUM.—The quotation for this market is fully maintained at 1s. 4d. per unit, landed and duty paid.

PEPPER.—The market is quoted fractionally easier and business has been disappointing. Lampong, spot, 6½d.; shipment, August-October, 5½d.; October-December, 5½d. per lb. c.i.f. Tellicherry, spot, 7½d.; shipment, September-November, 64s. per cwt. c.i.f. Aleppy, spot, 7d.; shipment, September-November, 59s. per cwt. c.i.f. White Muntok, spot, 7½d.; shipment, August-October, 6½d.; October-December, 6½d.; January-March, 6½d. per lb. c.i.f. Steadier at the close.

PIMENTO.—Market is about steady but rather quiet. Spot, 3½d. per lb.; shipment, September-October, 32s. 6d. per cwt. c.i.f.

RUBBER.—Business has been rather limited this week, closing steady at a fraction lower values. Total U.K. stocks, 104,204 tons, against 136,072 tons a year ago. Standard ribbed smoked sheet, sellers, spot, 2½d.; September, 2½d.; October, 2½d.; October-December, 2½d.; January-March, 1933, 2½d.; April-June, 2½d.; July-September, 2½d. per lb. The market recovered at the close, and was steadier with more business moving.

SAFFRON.—Dealers' prices have been reduced; business is fairly good in small quantities. Spot, prime B.P., 53s. 3d.; extra B.P., 50s.; super B.P., 46s. 6d. per lb. and slightly less for bulk quantities.

SEEDS.—ANISE.—Spanish, 53s. 6d.; Bulgarian, 35s.; Russian, 34s. spot. CANARY.—Spot, Mazagan, 12s. 6d.; Tangier, 13s. 6d.; Kenitra, 12s. 6d. LINSEED.—Morocco quoted at 12s. 6d. CORIANDER.—Morocco, 1929 crop, offered at 15s. 9d.; wormy, 15s. No business passing. CUMIN.—Morocco sold at 32s. spot; shipment, 28s. c.i.f.; Malta, 35s. spot. FENUGREEK.—Morocco, 12s. 6d. spot. CARAWAY.—Dutch, spot, 29s. to 30s. quoted, duty paid. MUSTARD.—English, 20s. to 27s. 6d. per cwt., according to quality. No extra bold to be had.

SENEGA.—The spot market is steady as quoted at 2s. 2d. to 2s. 3d. per lb.; shipment is firm at 2s. 1d. per lb. c.i.f.

SHELLAC.—The spot and shipment markets are quoted easier and business has not been so good. Spot, standard TN orange, 64s.; brie orange, 77s. 6d. to 137s. 6d.; pure button, 82s. 6d. per cwt. For delivery, TN, October, 56s. 6d.; December, 58s. paid; March, 60s. For arrival, TN, September-October, 54s. per cwt. c.i.f. The market improved at the close, and is now steady.

STRAMONIUM LEAVES.—The price quoted for spot supplies is about 45s. per cwt.

VALERIAN ROOT.—Spot is quoted a little easier this week at about 42s. 6d. per cwt.

WAX (VARIOUS).—Business has been fair and the markets are steady and level on the week: CARNAUBA, fatty grey and chalky grey, is quoted at 85s.; medium yellow is unchanged at 130s.; fine yellow, 145s. CANDELILLA is steady at 75s. per cwt. SPERMACETI, steady at 91d. per lb. spot. PARAFFIN is about steady from 22s. 6d. to 50s. per cwt. as to melting point. CERESIN is quoted from 35s. to 80s. per cwt., as to colour and melting point. BEES' now very steady, with the market showing more life; bleached, discs, £7 10s.; slabs, £7 5s.; yellow refined, £5 12s. 6d.; yellow crude, 97s. 6d. per cwt. spot.

Essential Oils, etc.

THERE has been an active demand for some products in this market, and values in these instances are dearer and firm. Java and Ceylon citronella have been in good request, and these items are now very firm. Spanish spike is dearer. Madagascar clove has moved off in good quantities, and shows a sharp recovery. Japanese dementholised peppermint has been active this week, and closes firm at dearer prices. The American oil is firm at unchanged figures for shipment.

ALMOND is quoted at about 7s. 6d. per lb. for genuine s.a.p., with sweet almond at 1s. 11d. to 2s. per lb. spot.

ANISE (STAR).—The spot market is dull and rather easier; shipment is unchanged and dull: spot, "Red Ship," in leads, 1s. 11d.; in tins, 1s. 9d.; in drums, 1s. 8½d.; shipment, in leads, 1s. 8d.; in tins, 1s. 6½d.; in drums, 1s. 6½d. per lb. c.i.f.

BERGAMOT.—This market remains generally quiet with the Consortium price at 9s. 6d. per lb. spot; some offers may be slightly less.

BOIS DE ROSE.—Cayenne on spot is nominal, and it is doubtful if there is anything but odd lots of a few lbs. available: nothing offering for shipment. Brazilian was offering on spot in some quarters at comparatively cheap prices, but most holders are now asking close up to 4s. 9d. Monopoly shipment price works out at about 6s. 4d. per lb. c.i.f., but there are other offers at about 4s. 4d. per lb. c.i.f.

CAJUPUT shows no change with spot quoted at about 2s. 4½d. to 2s. 6d. per lb. as to quantity.

CANANGA.—Based on the shipment figure, which is firm, spot is worth fully 7s. to 7s. 4d. per lb.

CARAWAY.—Enquiry is fair with Continental twice-rectified steady at 7s. 6d. to 7s. 9d. per lb. for quantities; crude, 5d. per lb. less.

CASSIA.—The spot market is steady with occasional business: spot, 3s. 9d. to 3s. 10d.; shipment is firm at 3s. 2d. per lb., in leads, c.i.f.

CEDARWOOD.—The Colonial material is steady on spot at 1s. 7½d. in drums and 1s. 9d. per lb. in tins. American is quoted at 1s. 10d. to 1s. 11d. on spot and 1s. 7½d. per lb. c.i.f.

CINNAMON LEAF.—The shipment market is reported to be firmer.

CITRONELLA.—There has been a brisk demand for Ceylon, and the market is dearer and firm. Spot supplies are stated to be very limited; spot, 2s. to 2s. 1½d.; shipment, 1s. 10½d. to 1s. 11d. per lb. c.i.f. Java is also dearer and firmer with spot at 2s. 11d. to 3s., and shipment at 2s. 7½d. per lb. c.i.f. Both Ceylon and Java close firm.

CLOVE.—There has been an exceptionally good demand for Madagascar with spot firm at 3s. 6d. to 3s. 9d. per lb.; shipment is fully 2s. 7½d. per lb. c.i.f.

EUCALYPTUS.—There has been a little more inquiry with the market unchanged and steady: Spanish, 70 to 75 per cent., 1s. 2d.; Australian, 70 to 75 per cent., 1s. to 1s. 0½d.; 80 to 85 per cent., 1s. 1d. to 1s. 1½d. per lb., and slightly less for bulk quantities.

GERANIUM.—Business seems to be rather slow, but spot is keeping up to 23s. 6d. per lb., with the forward shipment price working out to about the same figure. Algerian is quoted on spot at 24s. per lb.

GINGERGRASS has been slow with spot offers in the region of 6s. 6d. to 6s. 8d. per lb., as to quantity.

LAVENDER.—Prices for the various brands for shipment are now coming to hand, the most attractive for an average quality are as follows: 50 to 52 per cent., 10s. 6d. to 10s. 9d.; 40 to 42 per cent., 9s. 3d. to 9s. 6d.; 38 to 40 per cent., 8s. 9d. to 9s.; 36 to 38 per cent., 8s. 3d. to 8s. 6d.; 30 to 32 per cent., 7s. 6d. to 7s. 9d. per lb., delivered, for quantities. Some of the well-known brands are fully 6d. to 9d. per lb. dearer.

LEMON.—Spot business is slow and mostly at keen prices: some business in forward has been done. Sicilian hand pressed on spot is quoted from 4s. to 5s. per lb., while shipment offers for the best recognised brands are from 4s. 6d. up to 5s. per lb. c.i.f., with indications that shippers are expecting values to advance. Californian, spot, 57 cents per lb., in drums.

LEMONGRASS continues to find a fair volume of business with spot from 2s. 2d. and shipment at 2s. per lb., being rather dearer on the week. Some material on spot has been found to be not of the usual standard.

LIME.—Very little doing in this article and spot is cheaper at about 33s. per lb. for West Indian.

MANDARIN.—Some occasional small business is reported, with spot about 16s. per lb., as to quantity.

ORANGE.—The market is rather lifeless. Sicilian sweet, on spot, about 7s., with shipment fully 6s. per lb. c.i.f. West Indian hand-pressed, 5s. per lb. c.i.f. Californian, spot, 80 to 90 cents per lb., as to quantity.

PALMAROSA.—The spot price is well held at 8s. 6d. to 8s. 8d. per lb., as to quantity, and business is fairly good on limited lines.

PATCHOULLI.—The tendency to firmer conditions reported last week is now confirmed, with spot in most hands valued in the region of 8s. 6d. and 8s. 9d. for small lots; shipment is firm and dearer.

PEPPERMINT.—There has been some sustained business this week, and the spot market for Japanese dementholisised is dearer and firm at 3s. 9d. per lb. Shipment business has also been brisk, and prices have advanced, closing firm; October-December, 3s. 7½d.; January-March, 3s. 7½d. per lb. c.i.f. American oil for shipment is firm at fully 1 dollar 85 to 90 cents per lb. for new crop natural oil in drums, c.i.f. Crop is estimated at 350,000 with a carry-over of 175,000 lb., with heavy sales already made to leading domestic consumers. The market is looked upon as having fair prospects of further recoveries in value.

PETITGRAIN.—The market remains rather subdued, with spot at 4s. 3d. to 4s. 4d. per lb., as to quantity.

ROSEMARY.—The market is steady and business fairly good. Spot, about 1s. 9½d. to 1s. 10d.; shipment, 1s. 5d. per lb. c.i.f.

SASSAFRAS.—Spot offers continue at about 4s. 1d. to 4s. 3d. per lb., as to quantity.

SPEARMINT.—This market is well maintained as quoted at 7s. 9d. to 8s. per lb., as to quantity.

SPIKE.—Quite good business has been transacted on spot in Spanish, and the market is now firm and dearer at 3s. 3d. to 3s. 4d. per lb., and may go still higher. Crop is reported very poor, with the shipment market now working out at 3s. 1½d. c.i.f., and tending to advance.

WORMSEED.—There is nothing fresh to report here. The price for small lots on spot would be 14s. 9d. to 15s. per lb., with shipment costing 16s. 3d. duty paid and landed. The shipment market is firm.

Industrial Chemicals, etc.

THE general tone is healthy and business in these products is moderately good. The cotton lock-out has reduced consumption in the North. Convention prices for red and white lead are dearer. Acetic acid, acetone and formaldehyde are good markets. ACETIC ACID is in very fair demand, with the market steady: 80 per cent., technical, £37 5s.; 80 per cent. pure, £38 5s. per ton, in barrels; glacial, pharmaceutical, 99 to 100 per cent., £59, in glass demijohns; glacial, in barrels, £48 per ton, carriage paid in U.K. ACETONE, B.G.S., has been more active; market very steady: £65 to £68 per ton, in drums, carriage paid in U.K., as to quantity. AMMONIA (ANHYDROUS) is moving in the usual small lots on a keen market: 99.95 per cent. material, 11d. to 1s. 3d. per lb., in loaned drums, carriage paid, as to quantity. AMMONIUM CHLORIDE is fairly steady, but business has been slow: grey galvanising, £20 per ton, in casks, ex store; slightly less for contracts. ARSENIC is quoted at slightly cheaper prices for Continental material: about £24 per ton, in casks, ex wharf. BLEACHING POWDER is steady at makers' prices for home consumption: 35 to 37 per cent. chlorine, £8 15s. per ton, in minimum four-ton lots, carriage paid. FORMALDEHYDE continues moderately active on a steady market: 40 per cent. by volume, £28 per ton, in casks, ex store. ISOPROPYL ALCOHOL.—Business has been rather quieter and competition is keen: first quality, ex acetone, 11s. 6d. to 12s. per gallon, in drums, carriage paid; ex "cracked petroleum" qualities, 9s. per gallon. LEAD ACETATE is quoted slightly cheaper on a dull market: brown, £30 10s.; white, £31 15s. per ton, in casks, ex store. LITHOPONE.—Dealers' prices are unchanged from £20 per ton for 30 per cent. Continental Red Seal; the demand is small. OXALIC ACID is steadier at the lower price now quoted: in one-cwt. casks, 45s. 6d. to 46s. per cwt. ex store. POTASH CAUSTIC (88 to 92 per cent. solid).—Dealers' prices are steady; business limited: quoted £38 10s. to £40 10s. per ton, in drums, ex store. POTASSIUM CARBONATE has been rather dull, but dealers' prices are holding steady: 90 to 92 per cent., £30 15s. per ton; 96 to 98 per cent., £32 10s. per ton, in casks, ex store; lower prices for contracts. POTASSIUM CHLORATE.—The demand is very limited at the moment: quantities, minimum one ton, £37 10s. per ton; small quantities, 5d. to 6d. per lb. ex store. POTASSIUM PERMANGANATE is a shade

cheaper on a quiet market: commercial quality, in two-cwt. drums, 8d. to 8½d. per lb. ex store. POTASSIUM PRUSSIATE is steady and business is fair on small lines: yellow, in quantities, £77 to £79 per ton; single casks, 9d.; small parcels, from 10d. per lb. ex store. RED LEAD.—English, 5/10 cwt., £29 10s.; 10 cwt./one ton, £29 5s.; 1/2 tons, £29; 2/5 tons, £28 10s.; 5/20 tons, £28; 20/100 tons, £27 10s.; over 100 tons, £27 per ton, less 2½ per cent., carriage paid; non-setting red lead, 10s. per ton dearer in each case; Continental material, £1 per ton cheaper. Quotations are subject to withdrawal without notice. Convention prices have again been advanced. SAL AMMONIAC.—There has been a better demand and the market is steady: dog-tooth crystals, £36; medium, £32; fine white crystals, £18 per ton, in casks, ex store. SALTCAKE is steady for home trade as quoted at 62s. per ton, in minimum truck lots, in bulk, carriage paid. SODA CAUSTIC.—Makers' prices for home consumption are unchanged: 70 to 72 per cent., £13 12s. 6d.; 76 to 77 per cent., £14 per ton, in drums, carriage paid for contracts; spot material, 10s. per ton dearer. SODIUM ACETATE is dull, but dealers' prices are maintained at £22 per ton, in casks, ex store. SODA CRYSTALS (CARBONATE).—The home trade price continues at £5 5s. per ton, in bags, f.o.r. works. SODIUM BICARBONATE.—British makers' price for home trade is steady at £10 10s. per ton for refined, in bags, carriage paid. SODIUM CHLORATE is dull and rather unsteady: quantities, £32 per ton; small parcels, from 4d. per lb. ex store. SODIUM HYPOSULPHITE.—Business has slackened off a little; market steady: dealers quote pea crystals in one-cwt. kegs, £15 per ton; commercial quality, £9 5s., in casks, ex store; makers' price for pure crystals to home consumers on contract, £15 per ton, carriage paid to buyer's works. SODIUM PRUSSIATE is steady and a fair amount of business is moving: quantities, 5d. to 5½d. per lb.; smaller parcels, up to 7d. per lb. ex store. WHITE LEAD.—Dry, English, less than five tons, £39 10s.; 5/15 tons, £34 10s.; 15/25 tons, £34; 25/50 tons, £33 10s.; 50/200 tons, £33 per ton, less 5 per cent., carriage paid; Continental, £1 per ton cheaper; ground in oil, English, 1/5 cwt., £49; 5/10 cwt., £47; 10 cwt./one ton, £46 10s.; 1/2 tons, £45 10s.; 2/5 tons, £44; 5/15 tons, £41; 15/25 tons, £39 10s.; 25/50 tons, £39; 50/100 tons, £38 10s. per ton, less 5 per cent., carriage paid; Continental material, £2 per ton cheaper; subject to withdrawal without notice. A further advance in Convention prices is recorded.

London Drug Auction

Commercial Sale Rooms,
Mincing Lane, E.C.3.

September 22.

At the auction held to-day nine catalogues were submitted. The offerings were moderate, and the tone generally showed an improvement. The outstanding feature was the better demand for honey, and full prices were generally realised. Ipecacuanha was firmly held following important sales privately, with a continued absence of forward offers. Buchu was held for full rates. Senna: Alexandrian low-grade pods were in better demand following upon private sales at much higher prices; Tinnevelly was steady at former rates Dragon's blood was unchanged.

AGAR-AGAR.—A lot of four bales good Kobe No. 2 offered and retired at 2s. 3d.

ACONITE ROOT.—A parcel of 19 bags Japanese of good quality was withdrawn at 5s. per cwt.

ALOES.—Cape, none offered. 125 cases Curaçao and eight cases Zanzibar (in skins) were bought in from 80s. to 100s. and 70s. per cwt. respectively.

ANNATTO SEED.—Several descriptions were on offer: 40 bags fair Brazilian retired at 3½d. in bond; 16 cases of Marmagoa were held for 4½d. in bond, and 23 bags good Madras were limited at 4½d. per lb., duty free.

ASAFOETIDA.—Ordinary to fair almondy block was held from 80s. to 105s., whilst softish gum was retired at 65s. per cwt.

BALSAM.—13 cases *Tolu*, rather drossy, were limited at 3s. 2d. duty paid, at which the auctioneer announced sales were being made privately. Twelve cases Peru, of direct import, were limited at 4s. 6d. per lb., duty paid.

BENZOIN.—Sumatra was in fair supply, but the demand was not active, although several bids are being submitted. Fair almondy seconds were held for £7 15s.; ordinary seconds, £7 to £7 7s. 6d.; thirds, £6 to £6 5s.; very common bark, 85s. per cwt. Siam, a fair selection was held for previous rates; fine bold, loose almonds, £34; medium,

£31; small to medium, £27 10s.; grains, £21; siftings, part friable block, £10 10s.; blocky pickings, £14 per cwt. Palembang, there are still no supplies available.

BUCHU.—The total offerings consisted of 33 bales: rounds, good green were held for 1s. 2d. to 1s. 4d.; fair green, 1s.; yellowish, 10d. to 11d. Ovals, ordinary bronzy to rather yellowish, retired at 9d. to 10d. per lb.

CALUMBA.—A parcel of ordinary natural retired at 12s. 6d. per cwt. This lot was offered duty free.

CANTHARIDES.—Six cases of China flies retired at 2s. 3d. per lb.

CARDAMOMS.—The offerings were very small, and comprised in all 61 cases, most of which found buyers at steady rates.

CASCARA SAGRADA is dearer, and one lot of 55 bags new arrival, of 1932 peel, was retired at 55s. per cwt., duty paid.

CASCARILLA.—A lot of five bales fair quilly and stringy was withdrawn at 3s. per lb.

CHAULNOOGRA OIL.—In all, 28 cases offered, including Taraktogenos Kurzii at 1s. 10d. and Hydnocarpus Wightiana at 1s. 3d. per lb.

COLOCYNTH.—The offerings consisted entirely of pulp, fine pale being obtainable at 1s. and common at 7d. per lb.

CUTTLE FISH BONE.—Fifteen cases of good medium to bold bone, part broken, were held for 8d., at which figure private sales are recorded.

DRAGON'S BLOOD quiet and in fair supply: fair reboiled, £30 to £32; ordinary bright part drossy, £20 to £25. Slabs, pale, £11 to £12 10s. Reeds, dullish at £14 per cwt. Zanzibar drop, withdrawn from 60s. to 105s. per cwt.

EUCALYPTUS OIL.—Several parcels on offer: 72 to 74 per cent. (in drums) retired at 10d. to 10½d. per lb.

GAMBOGE.—Nothing sold. Fino Siam pipe was held for 17s., fair for 15s., and good Saigon £13, and roughish, rather blocky, £11, both the latter being "in bond."

GUAIACUM.—Only 16 packages offered. Good glossy was held for 2s. 3d., and fair part drossy at 1s. 6d. to 1s. 9d. per lb.

GUM ACACIA.—Thirty bags of bleached Kordofan were withdrawn at from 65s. to 72s. 6d., according to colour. The shipment market remains quite firm.

HENNA was neglected; 125 packages Egyptian were withdrawn at 25s. per cwt.

HONEY met with a very much more lively response to-day and, following the big sales which have taken place during the past week, the market is fully 3s. to 4s. per cwt. better, and the stocks of Jamaican are now very low indeed. It looks as though prices will go higher, considering that there will be practically no shipments of any importance coming in for the next six months. Further sales were made subsequent to the auction. Prices asked to-day ranged from 50s. for pale down to 24s. 6d. per cwt., but at these prices most lots have been cleared. Good medium honey sold at from 32s. 6d. to 40s. cwt. Some business was done after the auction. Cuban remains more or less unchanged, but for San Domingo there has been more inquiry, and one or two lots sold prior to the sale. Guatemalan: big sales have been made during the past week at higher prices.

IPECACUANHA.—Firm and very little on offer: Matto Grosso, fair root, is fetching 5s. Minas: two bales Minas sold cheaply at 4s. Cartagena: a lot of four bales was held for 4s. per lb.

KAMALA.—A fresh arrival of eight bags of good quality was obtainable at 1s. 6d. per lb.

MASTIC.—A parcel of nine cases good pale tears was limited at 1s. 9½d. per lb., duty paid.

MYRRH.—A fine lot of native picked was retired at 97 10s. duty free. A parcel of 14 bags darkish sort was held for 80s. per cwt.; very rough dark pickings retired at 60s. per cwt.

NUX VOMICA.—Firmer and dearer prices are now being asked at origin. In auction, 34 bags of good bold Codini retired at 18s. per cwt.

ORANGE PEEL.—A total of 16 cases was catalogued. Good thin crop Tripoli was obtainable at 9d., and very dark at 5d. per lb.

QUINCE SEED.—Very scarce, and a small lot of good Cape was available at 4s. 9d. per lb.

RHUBARB was in fair supply, and retired at previous rates. Shensi being quoted at 4s. to 4s. 3d.; Canton at 2s. 7d.; flat high-dried at 2s. 2d.; round horny at 1s. 2d. to 1s. 7d. per lb.

SANDARAC.—An arrival of 14 casks of fair glassy was limited at 110s. per cwt.

SARSAPARILLA.—Neglected. Eight serons Honduras retired at 2s. 9d. "in bond"; eight bales grey Jamaica were withdrawn at 1s. 7d. "in bond," and 23 bales native Jamaica were held for 1s. 1d. to 1s. 2d., duty free.

SENNA.—Alexandrian, the market for pods of the cheaper grades is considerably dearer; practically the whole of the manufacturing quality have been cleared. The prices at origin are reported to be considerably in advance of the London market. In auction there was quite a good demand, and up to 5½d. was paid for good manufacturing. Tinnevelly continues very steady, and hand-picked pods retired at 7d. and f.a.q. pods at 4d. to 4½d. Leaves, good bold greenish, held for 6d., medium at 4d., and rather ordinary small at 2½d. to 3d. per lb.

STROPHANTHUS.—100 per cent. Kombo was held for 5s., whilst a parcel of part weevily offered at 4s. 6d. per lb. duty free.

TAMARINDS.—Twelve casks of good black Calcutta were obtainable at 17s. per cwt.

TONKA BEANS.—Angostura is still very scarce, and there are no supplies available of really fine beans. A lot of 3 casks, rather ordinary, retired at 4s. 6d. Para, 15 cases were withdrawn at from 8d. to 1s. per lb., according to quality.

TURMERIC.—100 bags retired, good Madras finger at 26s. and Cochin split bulbs at 18s. per cwt.

TURTLE (DRIED).—Two cases of fair quality were retired at 5s. per lb.

WAX.—Of five barrels Jamaica three sold at £5. The rest of the offerings were withdrawn. Privately the market is very firm with a distinct shortage of spot supplies at reasonable prices.

The next drug auction will be held on Thursday, November 24.

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1932, p. 339.

(From "The Trade Marks Journal," August 31, 1932.)

"HYGIAPLAST"; for surgical adhesive plasters (3). By Hinders, Ltd., 174-192 Euston Road, London, S.W.6. 533,824.

"UROGOTAL"; for chemical salines (3). By F. Montague, 29 Sicilian Avenue, London, W.C.2. 533,962.

"MASANA"; for medicinal chemicals (3). By Ram Bilas Sirdaw, Market Street, Jinja, Uganda Protectorate. 534,028. (Associated.)

"DIGITALID"; for medicinal chemicals (3). By Chemical Works, formerly Sandoz, 60 Fabrikstrasse, Basle, Switzerland. 534,066.

"TANGEE"; for perfumery, etc. (48). By The George W. Luft Co., Inc., Corner of 36th Avenue and 35th Street, Long Island City, New York, U.S.A. 522,908.

"CLEO"; for goods (48), (excluding perfumed soap and shampoo powder). By Lectra-Ray Products, Ltd., 3 Fleet Lane, London, E.C.4. 527,756. (Associated.)

"HYGIENADENN"; for perfumery, etc. (48). By C. D. Field, 28 Gondar Gardens, West Hampstead, London, N.W.6. 532,136.

"CILTON-AMPICIL"; for preparations for the hair (48). By Cilton Products, 1 Castle Street, Sneinton, Nottingham. 532,778.

"HILAREEN"; for perfumery, etc. (48). By J. Sutton, 9 Okeover Road, Broughton Park, Manchester. 533,637.

APPLICATIONS CANCELLED

According to "The Trade Marks Journal" of August 31, 1932, "SUN PEAK BRAND" with design in Class 3, No. 531,696, by Arthur H. Cox & Co., Ltd., is cancelled in respect of medicated soap.

According to "The Trade Marks Journal" of August 31, 1932, "ONGLUX" in Class 48, No. 531,799, by L'Onyx Laboratories, Ltd., is cancelled in respect of all goods except liquid nail polish and remover, cuticle remover, nail polish white, nail white and cuticle cream.

Correspondence

Letters should be written on one side of the paper only. Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor.

Appearance and Reality

SIR,—“Country Chemist” (14/9) took over a column in “our journal” on September 17 (p. 357), but he deserves a column in Bloomsbury Square! “This man said ‘Pharmacy expects’—and died fighting.” Why does his letter stick in the memory, when the pages on the Conference have faded? Because he spoke truth, which, being rare to-day, becomes immediately original. What a pity he spoilt it all by saying what he would do at a Conference! It is not the Conference that wants making more practical, it is the business he is running; and by the sound of it, he is doing it very well. Sell everything you can, “Country Chemist,” if it brings you bread, and a bit more too, if it brings you butter, but—don’t sell your soul! A man who can think and write as you do sounds as though he is living, which is a business inside of us, not outside. Better to live in a back-street “doctor’s shop,” where humanity is seen at its richest, than die in a Conference chamber, as many have done. But you must not miss the value of being at the Conference. I take my hat off to the pioneers who have delved into science, not to benefit, perhaps, this generation, but the next. But I put my hat over my face and laugh at the names to whom a Conference means one thing only—a good outing, a photograph, name in print, and the possible chance of a manufacturer saying, “You’re always in the swim, old chap, how about being our sales manager?” That is the brink of big business, Mr. Country Chemist; and if you want business only, get in the swim, get your name in everything, get on the Council—you might finish Mayor and be able to drive all the pharmacy in the town into your shop; but with all the graft necessary to do this you would only thrive—you would not live. A man is usually biggest when his trouble is big; and in the end what makes a man is the effort—not the prize.

Yours truly,
COUNTRY CHEMIST II (20/9).

SIR,—I like “Country Chemist’s” letter. To ask such a man to sell hair curlers, fly-catchers or “chewing gum, please” is to commit an atrocity which ought to be brought to the notice of the (if there is one, and there ought to be) N.S.P.C.P.—the National Society for the Prevention of Cruelty to Pharmacists. I am going to invite “Country Chemist” to look all round the problem he poses. First of all I would remind him that there are innumerable pharmacists who rejoice in the tasks which to his lasting credit appeal him. I have had verbal interchanges with chemists who delighted in selling cigarettes, chocolates, paraffin oil and toasting forks, and who never once deplored this dilution of labour as a grim necessity forced upon them by economic urgency. Quick returns and “no messing about” were the reasons given for their preference for simple shopkeeping. I am willing to admit that our ranks are full of so-called pharmacists so-minded; but does it follow that the British Pharmaceutical Conference should concern itself with such topics as would appeal to this (admittedly large) section? Perhaps indeed it should; and if the Conference were a true mirror of our calling we should listen to papers (those of us who were not amusing ourselves in hotel headquarters) not only on Rupp’s method for the estimation of mercuric chloride or on a comparison of the antidiuretic and oxytocic potencies of pituitary, but also on the technique of affixing handles to curling irons, on the manufacture of butter-scotch, on wireless parts, bathing caps and costumes, household soaps and postage stamps. In spite of all this, there is yet a body of pharmacists who, like “Country Chemist,” hanker after pure pharmacy. Perhaps 30 per cent. of us do—and I am one of them. And I still believe that specialism (unless taken to ex-

cess) makes for proficiency. Let those of us who love unadulterated shopkeeping specialise in this activity, leaving dispensing and all the rest of the genuinely pharmaceutical jobs to those who prefer them. The true pharmacist would then eschew shopkeeping as completely as the doctor does—and the shopkeeper would equally abstain from poaching on pharmaceutical preserves. Each of us would be doing the job he liked best; and, liking it best, we should be more likely to achieve personal success than we are to-day. Such a division of labour represents an ideal which we shall do well to keep in view. We must attract to pharmacy not the shopkeeping mentality, but the scientifically minded. If pharmacy were more truly pharmaceutical, we who practise pharmacy would be less at the mercy of other shopkeepers or of the multiple-shop drug store.

Yours truly,

LEX (20/9).

SIR,—I read with much interest a letter from your correspondent “Country Chemist.” He wrote of the great difference between pharmacy as suggested in the papers read at the Conference and the reality practised by the majority of retail chemists to-day. After only a few months’ apprenticeship I am forced to agree with him, and must reluctantly admit that I am bitterly disappointed with my first experience of retail pharmacy. For months before I was apprenticed I looked forward with the greatest pleasure to the day when I should penetrate to the mysterious realm which lay behind the barrier marked “Dispensing Department.” Somewhere I had read that “pharmacy is the handmaid of medicine,” and in imagination I already saw myself helping to prepare batches of shiny coated pills, concocting many-coloured mixtures from strange-smelling drugs, or brewing aromatic infusions from leaves and herbs gathered from remote parts of the world. In short, I surrounded the place with an atmosphere of romance and glamour. The reality was far removed from my ideal. On the first morning of my apprenticeship, instead of spending my time learning something of that fascinating region of bottles and mortars as I had fondly hoped, I was given the prosaic task of marking prices on highly perfumed lipsticks and ridiculous fluffy powder puffs. We never make pills; they come to us ready-made. We do dispense a few prescriptions, I will admit, but they are mostly from stock mixtures, and certainly do not contain the element of romance that I anticipated. On the only occasion that a freshly made infusion was ordered, I tramped round to six different chemists before I could find one who stocked buchu leaves. All said that it was an unheard-of thing to make an infusion on the premises in these days; and when at length I did procure the leaves, they had been kept for so long that mice had gnawed them to shreds, and we were obliged to use ready-made concentrated infusion after all. And this is general, I suppose. Pharmacy, as practised of old, is gone for ever, and the modern so-called pharmacist is in reality little more than hairdresser, haberdasher and grocer combined. I am bitterly disappointed.

Yours, etc.,
DISILLUSIONED APPRENTICE (20/9).

Proposed Duty on Cod-Liver Oil

SIR,—I must congratulate you on your excellent article appearing in a recent issue under the above heading, and I trust the Government will have sufficient foresight to annul the proposed agreement made at the Ottawa Conference to levy a duty on foreign cod-liver oil of 1s. 4d. per gallon. This tariff, which amounts to approximately 45 per cent., *ad valorem*, is levied against the Norwegian producers, whose oil, for the past generation, has been the standard quality

in pharmaceutical circles. If this proposed duty comes into operation it will greatly increase the retail price, and I am informed that it will eventually result in the price of the 12-oz. bottle being increased by 7d. per bottle. As cod-liver oil is the most vital of all medicines, it seems remarkable that the Government should have singled out this one item to suggest a levy to protect the Newfoundland cod-liver oil, which is practically unknown in this country. Chemists generally should protest emphatically against this proposed imposition, and as in the present Parliament we have no direct representative to watch our special interests, I advise all chemists to write to their local member of Parliament, protesting against this levy on so vital an article as cod-liver oil.—Yours faithfully,

MEDICUS (21/9).

The New Pharmacopœia

SIR,—Those chemists who are tied to their counters, or who are not residing within a practicable distance of London, Edinburgh or Dublin, will be interested in Mr. F. H. Alcock's account of "A Peep at the New Pharmacopœia" (C. & D., September 10, p. 283) and the formalities he went through before obtaining his peep. This forbidding the publication of any of the formulas before the book is officially published on September 30 seems to be a new condition, because a different course was taken when the 1914 revision was completed. It was stated in your columns at the beginning of October (C. & D., 1914, II, 483) that the new B.P. would come into force on December 31, 1914, and that a copy had been supplied to THE CHEMIST AND DRUGGIST by the General Medical Council so that the drug trade could be made acquainted with the changes. Between that date and the end of October successive articles were published, and so chemists were fully aware of the alterations two months before the date of the official publication and were able to arrange their stocks accordingly.

Faithfully yours,
CHANGEMENT (19/9).

Aberdeen Pharmacies

SIR,—In the opening paragraph of your article on "Aberdeen Pharmacies and Pharmacists" (C. & D., September 10, p. 292) it is stated that they all possess one thing in common, the exhibition of a gilt mortar and pestle over the door as the sign of the chemist. An inspection of the illustrations of the pharmacies shows how universal this sign is, but it also shows that many of the shops feature photographic supplies, so that although pharmacy may be on a much higher plane in Scotland than it is with us, yet they do not despise the side-line as an addition to more professional work. In this country the carboy and the outside lamp used to be the distinctive signs of the pharmacy; but these are becoming almost obsolete, and our fronts to-day might be representative of any trade. Among the illustrations a few pharmacies stand out as being purely professional in style. A good many years ago I was an assistant in a pharmacy on the south coast where we had the same style of window, but a subsequent visit in later years showed that even this business had succumbed to modernisation.—Yours truly,

SIGNA (20/9).

Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics.

Addresses Wanted

Mr. George Oxley, 78 and 80 High Street, Hailsham, inquires whether any C. & D. subscriber knows the address of Mrs. E. J. Oliver, late of Hellingly, Sussex.

Mr. C. Goode, 36 London Road, Twickenham, would like to get in touch with Mr. Charles Hall, chemist, who lived in Kennington Park Road, London, S.E., in 1905.

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for, and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

J. H. (China) (28/38).—CAPPING MATERIALS.—There is no book which will meet all your requirements, but Wilson's "Pyroxylin Enamels and Lacquers" (Constable, 18s.) is an excellent treatise. The following formulas will also be useful as a starting point for experiments:—

Bottle Capping Solutions

| | I | II |
|---------------------------|--|---|
| Gelatin sheet (cut small) | .. 3ij. | Pyroxylin .. 5 parts |
| Glycerin .. | 3vj. | Acetone .. 50 parts |
| Glue size .. | 3iv. | Benzene .. 20 parts |
| Amyl acetate .. | 3ij. | Amyl acetate .. 25 parts |
| Colour .. | q.s. | The appropriate colour is given with a spirit soluble aniline dye. The caps can be made by using test tubes as formers. |
| | Soak the gelatin in cold water for 10 minutes; dissolve on a water bath, then add colour and amyl acetate. Dip while warm. | |

A. G. (27/28).—FOOT-ROT APPLICATION.—A foot-rot preparation containing the ingredients you mention can be made as follows:—

| | | | |
|--------------------|----|-----|------|
| Cupri sulph. pulv. | .. | .. | 5j. |
| Hydrg. perchlor. | .. | .. | 3j. |
| Ac. carbol. | .. | .. | |
| Glycerini .. | .. | aa. | 3ij. |

Mix the copper sulphate with the glycerin and carbolic acid, then add the mercury chloride, which must be finely powdered. One or two dressings are usually sufficient.

G. E. D. (3/68).—FLUID FOR CHEMICAL CLOSETS.—It is perhaps unnecessary to say that such a universal solvent is unattainable. But, assuming that disintegration of the solid matter is meant, we can see nothing better than caustic soda with perhaps the addition of phenol or some other disinfectant. This is the method used in most of the chemical closets marketed. It can, of course, not be used in metal pans unless these are made of iron, and would have a certain amount of action on stoneware, but we do not see how this is to be avoided. The other methods involved in chemical closets simply consist in adding a powerful disinfectant, but this would not meet your demand for the solid matter to be rendered soluble.

Retrospect of Fifty Years Ago

Reprinted from

"The Chemist and Druggist," September 15, 1882

Professor Attfield's Advice

From beginning to end of the address [at Southampton] the author manifests an acquaintance with the position and difficulties of the trade, and suggests ideas of so much practical value that no pharmacist who takes a living interest in his business can afford to pass it over. . . . The pharmacist is not going to die out, and his work has sufficient utility to the community to make it both necessary and honourable. This Professor Attfield shows very forcibly, and then he proceeds to analyse pharmacists themselves. For those who are traders, and traders only, he has no word of disrespect; but he justly, and even kindly, reminds them that as traders they must be prepared for the sharp competition of trade, and he boldly advises the mere trader to meet the attacks of competitors by adding their trades to his as auxiliaries. . . . He enters a protest, which seems to us most timely, against the practice, far too prevalent among "chemists" and druggists, of abandoning the trade in chemicals to the oilman and the drysalter.



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 Ergotin • Eserine • Ethylmorphine • Gingerine
 Hyoscyamine • Jalap Resin • Leptandrin
 Morphine • Opium • Podophyllin Resin
 Salicin • Santonin • Scammony Resin
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CITRATE of POTASH

CITRATE of SODA

FERRI et AMMON
CIT.

BICARBONATE of POTASH

CARBONATE of POTASH

ROCHELLE SALTS

PULV.

SEIDLITZ

TARTRATE of SODA

TARTRATE of POTASH

JOHN & E. STURGE, Ltd. WHEELEY'S LANE
BIRMINGHAM

Agents:

H. J. BAKER & BRO. NEW YORK
C. REINBOLD & CIE, 10 Rue Perree, PARIS

Cables: "STURGEON, BIRMINGHAM"

Codes: A.B.C. 6th Edition, BENTLEY'S
and LOMBARD



Johnsons of Hendon

“Scales  Brand”

PHARMACEUTICAL CHEMICALS,
GALENICALS AND PACKED DRUGS,
EMULSIONS, DECOCTIONS,
LIQUID EXTRACTS, OINTMENTS,
INFUSIONS, TINCTURES,
LINIMENTS, SYRUPS



JOHNSON & SONS, MANUFACTURING CHEMISTS, LTD., HENDON, LONDON.
Manchester Office: 12, QUEEN ST., DEANSGATE.

EPSOM SALTS
*Commercial and B.P. Qualities
also Powdered*

Glauber's Salt
*Commercial and B.P. Qualities
and Desiccated*

Zinc Sulphate
Commercial and B.P. Qualities

Zinc Chloride
Fused, Granulated and Liquid


**WILLIAM
BLYTHE
& CO., LTD.**
Holland Bank Chemical Works
**CHURCH
LANOASHIRE**

**Hyposulphite
of Soda *Pea Crystals***
**Lead Arsenate
Paste and Powder**
**Precipitated
Sulphur**
WEED KILLER

*A list of our general Technical
Chemicals sent on application*

ALL PREPARATIONS CONTAINED IN THE
BRITISH PHARMACOPÆIA 1932—

CAN BE OBTAINED FROM:—

WILLOWS, FRANCIS, BUTLER & THOMPSON, LTD.
73-5-89a, SHACKLEWELL LANE, LONDON, E.8.

TELEPHONE :
CLISSOLD 6361 (4 lines)

— ESTABLISHED 1751 —

TELEGRAMS :
FORTY KINLAND, LONDON

AND NOW COMPLETING OUR SECOND CENTURY OF SERVICE TO THE PHARMACIST.



BRONNLEY'S *Toilet Luxuries*

For the coming season, form a range more attractive and of finer value than ever before. Mere illustration cannot do full justice to the beauty of design and colouring of our Gift Sets and Bath Crystal Containers, the prices of which are all moderate, and show a liberal margin of profit.

BRONNLEY'S LEMON SET

The sale of this set is backed by the national advertising of Bronnley's Cream (made with Lemon).

32/- per doz.



PICKLE JAR No. 2340

BRONNLEY'S BATH CRYSTALS

Available in a variety of attractive utility containers. Obtainable in Verbena, Lavender, Cologne, Rose, Violet, Jasmin odours, etc.



ROSE BOWLS
Available in four sizes
22/-, 30/-, 38/-, 46/-
per doz.

**BRONNLEY'S GENT'S SET
NO. 5.**

36/- per doz.

This illustrates one of the many attractive
Gift Sets we have to offer.



BRONNLEY

LONDON W.3

Ku-bist

HAIR FIXATIVE

PLAIN or ROSOLA (with oil)

It could not be improved in quality or effect—

"I feel I must write and congratulate you on the production of a hair cream that really does the job it is intended to do. I have now been using your Rosola hair cream for several months and can honestly say that it is the best hair cream I have yet tried."

"It may be of interest to you to know that having run out of my usual brand of hair cream, I risked asking my wife to obtain a further supply. On the following morning I found a bottle of Ku-bist in the place of the usual cream."

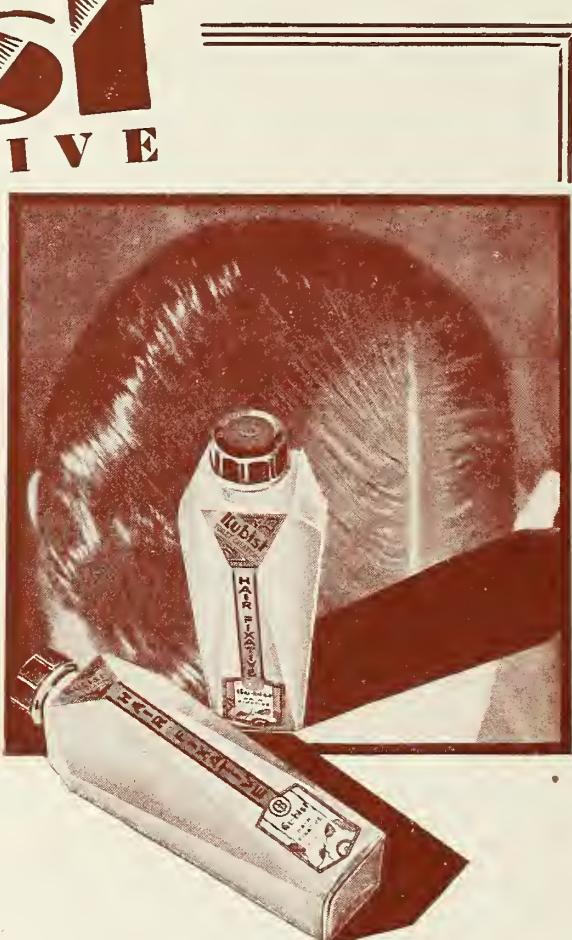
"From the first application of Ku-bist I found my hair was perfectly controlled, without the usual 'gluey' appearance."

"I am extremely grateful to both you for marketing such an excellent product and to my wife for her good taste in purchasing it."

Dear Sirs,

"I should like to express my appreciation of your hair fixative. I have tried many other makes, and all except yours, suffer from the same complaint, they tend to make the hair gummy and brittle."

"Your fixative is doubly pleasing in that it is always of the same creamy consistency and hasn't the over abundance of scent of many other makes."



so we have added to its perfect, copyright bottle a handsome new black Bakelite cap, which places it still further above competition, and makes it still more an ornament, as well as a seller, on your counter

KU-BIST HAIR FIXATIVE (plain) or
"ROSOLA" (with oil).

Small 1/-. Medium 1/9. Large 2/9.
8/- per doz. 14/- per doz. 21/- per doz.

To October 15th only we will send you as little as
 $\frac{1}{2}$ dozen 1/9 size (7/-) carriage paid and so enable
you to test the wonderful demand.

Advertising regularly and largely in "London Opinion," "The Humorist," "Golf Monthly," "Golf Illustrated," and other papers for the man, is creating a thoroughly active demand, and the kind of man that we are appealing to will not readily accept—or forgive his favourite store for offering—a substitute

Here is an extract from a typical letter:—

"Kindly send me one bottle of Ku-bist Hair Fixative (2/9 size) for which please find postal order herewith. Kindly let me know the name of your nearest stockist, as I have tried all the local stores including _____, and was told they don't stock it. I was offered their own brand of hair cream. I believe and from past experience I can say that it is absolute 'muck' compared with Ku-bist."

E.A.R., Southgate, London.

If you yet have not seen the handsome KU-BIST pack, we will gladly send you a sample bottle.

WILL YOU PLEASE ACCEPT THE ABOVE OFFER AND TRY KU-BIST

KU-BIST SALES
LEEDS

**Men's
Gifts
that
women
will buy
this
Xmas!**



Here are Gift Cases that will sell well for your Christmas trade—standard lines specially packed in attractive gold and shagreen cases for which no extra charge is made. The Gift Case containing full size Shaving Cream and Aqua Velva retails at 2/6 (usual price 3/-). The Gift Case containing Marbelite Shaving Stick and Aqua Velva retails at 2/9. An order to the nett value of £2 for these or any Williams Shaving Preparations shows you a clear $33\frac{1}{3}\%$ Profit on these well-advertised lines.

Williams

Shaving Preparations

MADE IN ENGLAND

Sole Distributors : SCOTT & BOWNE, Ltd., 10 Stonecutter St., London, E.C.4

Used daily
by your best
customers



NUFIX

the Quality Dressing for Men's Hair has been most enthusiastically received and is in continuous demand everywhere.

Fixes the hair without hardness or deposit.
Does not soil headwear or linen.
Is guaranteed not to contain gum.
Eliminates dandruff if used regularly.

You reap the benefit of our National advertising and a good margin of profit. Showcards, display stands and leaflets for counter distribution.

Small size 9/- per doz. (Retail at 1/3 each)
Large size 12/6 per doz. (Retail at 1/9 each)

Of your Wholesaler, or from the Manufacturers

WALDEN, WALDEN & CO.
15 Grape St., London, W.C.

THE NEW COMPLEXION CLOTH

YOUR DISCRIMINATING CLIENTS
WILL WELCOME "Turknit"
COMPLEXION CLOTHS IN PLACE
OF THE USUAL PAPER TISSUES
THEIR POSITIVE ACTION EXTRACTS
EVERY TRACE OF GREASE FROM THE PORES
AS WELL AS SURFACE OF THE SKIN



Made in
PEACH
ORCHID
GREEN OR
WHITE

- Daintily wrapped
in cellophane -

Obtainable from your usual wholesale sundriesman

SHAVING BRUSHES BE SURE

THE S B SIGN OF

THERE'S QUALITY & VALUE ALWAYS A BRUSH
IN THE S-B-RANGE

TO SUIT YOUR CUSTOMER

ENSURE

S ATISFACTION & B UY
AFETY & RITAINS
SERVICE HAVING B EST
BRUSH

SEND YOUR ENQUIRIES TO:—

SHAVING BRUSHES LTD.,
ALBION STREET WORKS,
BIRMINGHAM

Bristow's

"Make beauty a duty"

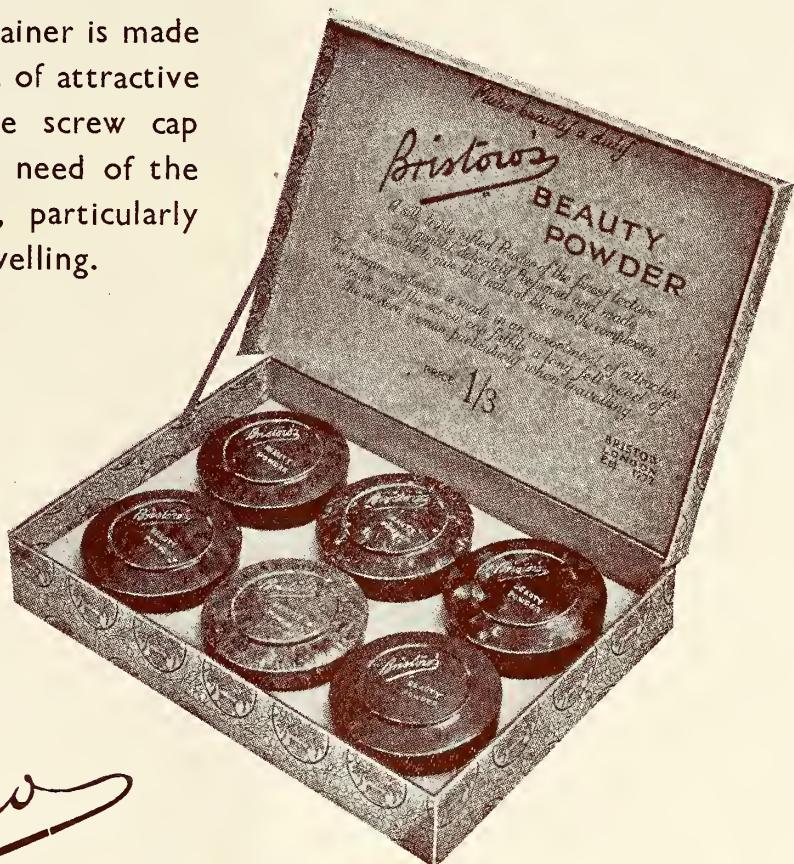
BEAUTY POWDER IN NEW STYLE CONTAINER

A silk triple-sifted Powder of the finest texture and quality, delicately Perfumed and made especially to give that natural bloom to the complexion.

The unique container is made in an assortment of attractive colours, and the screw cap fulfils a long felt need of the modern woman, particularly when travelling.

Retails at
per **1/3** box

Write to-day for
particulars of
special cash bonus.



THE CHEMISTS' HOUSE SINCE
1777

COLINDALE, N.W.9

RUFF & CO.

PENTNOR LABORATORIES

36 & 38, PENTON STREET
LONDON, N.I.

Telephone: North 2198.

MANUFACTURERS OF

ALL KINDS OF TOILET CREAMS (Best and cheaper lines).
LOTIONS, ASTRINGENTS, EMULSIONS, DEPILATORIES,
DEODORANTS.
COLOGNES, LAVENDERS AND ALL OTHER LINES OF PERFUMES.
FRICTIONS AND PREPARATIONS FOR THE BATH.
SHAMPOOING PREPARATIONS.
LIQUID SOAPS AND GRANULES (Herbal and Plain).

PREPARATIONS FOR SCALP AND HAIR.

Customers' Own Name lines a speciality, also Bulk.



CARTONS

FANCY BOXES

SHOWCASES

FOLDING BOXES, WIRE-

SEWN BOXES, PRINTED and

EMBOSSING LABELS, SHOWCARDS, &c

May we quote YOU?

JOHNS, SON & WATTS

LIMITED

40 CITY ROAD, LONDON, E.C.1

•EST.
1842

M
B

PHONE: CLERKENWELL 1128

GRAMS: JOHNS PHONE LONDON

HOUBIGANT'S WORLD-FAMED FACE POWDER "QUELQUES FLEURS" NEW 1/3 SIZE



wholesale: 10/- per dozen

To meet the present day demand for high-class products in smaller sizes, HOUBIGANT have now made available a handbag size of their superlative quality "QUELQUES FLEURS" Face Powder at a price within the buying capacity of every woman.

A further attraction.... The existing shades have been added to by two new colours in the latest fashion:

"RACHEL ROSEÉ" (Rosy Rachel): Giving to the complexion a wonderfully radiant charm.

"OCRE SOLEIL" (Sunny Ocre): A fascinating warm shade tinged with Summer sun.

The two new shades are obtainable in the larger sizes.

HOUBIGANT

PARIS

LARDEN ROAD PARFUMERIES DE PARIS LIMITED ACTON - LONDON

women
are not
waiting
for
Xmas
to get their
“IVA” Fur Puffs



At last they have the perfect powder puff—and they are buying it NOW—for themselves and for their friends . . . A further intensive National advertising campaign is starting at once . . . “IVA” will be this year's fastest selling line. Don't let your stocks get low.

“IVA” is the easy-to-remember name for the only fadeless, washable, real fur powder puff. It is guaranteed 100% hygienic, made in the newest pastel and fashionable shades—and it is British.

“IVA” Fur Puffs are retailed at popular prices ranging from 6d. upwards, showing the full trade profit on all lines, with the usual discount terms. For example, the 6d. puff costs you 4/3 per dozen, the 9d. puff 5/9 per dozen, the 1/- puff 7/9 per dozen, and so on. A wide range of Sports and Handkerchief puffs are also available.

The wholesale houses have comprehensive stocks ready for your demands.



THE “IVA” MANUFACTURING COMPANY,
25-29 BANNER STREET : LONDON : E.C.1

millions of men

use double-edged
RAZOR BLADES



*Pifco every one
needs a*

SHARPEX

RAZOR-BLADE SHARPENER

It's a great profit maker. Just the thing that every man has been looking for, at a price which anybody can afford. Simple to operate and amazingly efficient every time, the Pifco SHARPEX is certain to appeal to your customers.

Lay in a stock to-day, then watch how quickly it will go. Trade terms direct from

Patentees: Pifco
Ltd., High St.,
Manchester.



RETAILS AT



De Luxe Model 5 -

SUPPLIED THROUGH YOUR REGULAR FACTOR

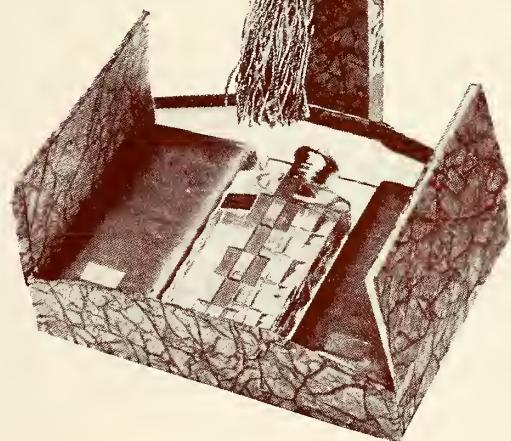
STOCK IT—IT SELLS

Here's more Value & Profit

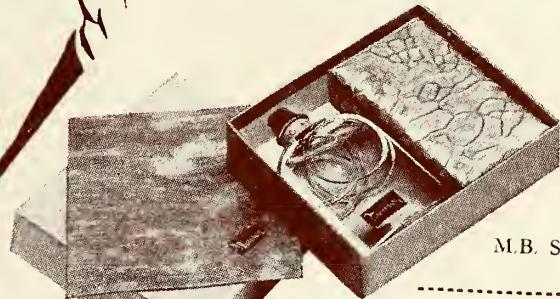


M.C.
Soap and Perfume
Retail 1/6

M.F. Two Soaps
and Large Perfume
Retail 2/6



M.D.
Soap and Perfume Retail 1/6



M.B. Soap and Perfume
Retail 1/-



Less 5 per cent. cash
7 days

£3 Assortment. Costs. £ s. d. Sells. £ s. d.

| | 3 dozen assorted | 1/- | 1 4 0 | 1 16 0 |
|-------|------------------|-----|---------------|--------------|
| 1/2 " | " | 1 6 | 0 18 0 | 1 7 0 |
| " | " | 2/- | 0 8 0 | 0 12 0 |
| 1/2 " | " | 2 6 | 0 10 0 | 0 15 0 |
| " | " | 5/- | 0 10 0 | 0 15 0 |
| | | | 3 10 0 | 5 5 0 |

Less 5 per cent. cash
7 days

3 6 6

Free Goods 1 x Set at 5/-

1 x Set at 4/-

3 6 6

5 14 6

PROFIT — £2 8s. 0d.

£6 Assortment. Costs. £ s. d. Sells. £ s. d.

| | 6 dozen assorted | 1/- | 2 8 0 | 3 12 0 |
|-------|------------------|-----|--------------|----------------|
| 3 " | " | 1 6 | 1 16 0 | 2 14 0 |
| 1 " | " | 2/- | 0 16 0 | 1 4 0 |
| 1 " | " | 2 6 | 1 0 0 | 1 10 0 |
| 1/2 " | " | 5/- | 1 0 0 | 1 10 0 |
| | | | 7 0 0 | 10 10 0 |
| | | | 0 7 0 | 6 13 0 |

Less 5 per cent. cash 7 days

6 13 0

Free Goods 2 x Sets at 10/-

2 x Sets at 5/-

2 x Sets at 4/-

6 13 0

1 19 0

12 9 0

PROFIT — £5 16 0d.

Sole Distributors:

PENCO LTD.

185 Great Portland St., London, W.1

() Kindly send assortment.....

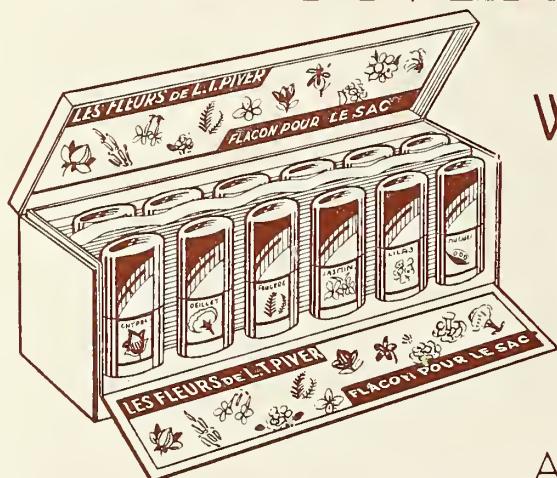
() Kindly have Salesman call.....

X Mark which you prefer.

NAME.....

ADDRESS.....

WHY NOT STOCK THE NEW PIVER HANDBAG SIZE FLORAL PERFUMES?



Wholesale 24/- Retail 3/-

Packed in a dainty
Perfume stand, offered free and
forming an attractive display.

Obtainable in the 12 following
delightful fragrances—

Ambre, Chypre, Muguet, Narcisse,
Oeillet, Fougère, Héliotrope, Jasmin, Lavande, Lilas, Rose & Violette.

PARSCENT Ltd. 102, Dean St. London, W.I. Telephone - Ger. 1650.

“SNOW”

YOU SAW the ANNOUNCEMENT of our
BONUS OFFER

last week.

Please note that we are now PACKING
SNOW in THREE SIZES as follows :

| 1/9 Size | 2/9 Size |
|------------------------|-------------------------|
| 12 boxes at - 14/6 | 12 boxes at - 23/- |
| 1 box FREE | 1 box FREE |
| 13 boxes, | 13 boxes. |
| Your price - - 14/6 | Your price - - 23/- |
| Sell at 1/9 each, or | Sell at 2/9 each, or |
| 13 boxes, | 13 boxes, |
| Retail price - 22/9 | Retail price - 35/9 |
| YOUR PROFIT 8/3 | YOUR PROFIT 12/9 |

3/- Size
12 boxes at - - 25/-
1 box FREE

13 boxes, your price 25/-
Sell at 3/- each, or
13 boxes, retail price 39/-
YOUR PROFIT - 14/-

NOTE : The 2/9 size will be delivered on and
after Sept. 26

WRITE TO :

BRITANNIA LABORATORIES
13 Little Tichfield Street, London, W.I.

MORE POPULAR THAN EVER...



Easy to see why Snowfire Cream
goes on increasing in popularity.
Its purity and fragrance, its
greaseless vanishing quality and
its real beautifying properties
make it the favourite everywhere.
Every customer you make means
more to come—every satisfied
user tells her friends about
Snowfire. So make good displays
—brisk sales and good profits
will result.

Handbag Containers 3d.

Dainty 6d. Tubes
Retail

Snowfire
VANISHING CREAM

Manufactured by
F. W. HAMPSHIRE & CO., LTD., Sunnydale Works, Derby

IT'S CLEAN IT'S WATERPROOF

This bristle container is patented in England, France, Germany, Switzerland, U.S.A. and Canada, etc.

Every Anti-Thrax tooth brush is supplied in a container.

THIS

costs you

5/6

complete with the seven tooth brushes. (Showcard is free.)

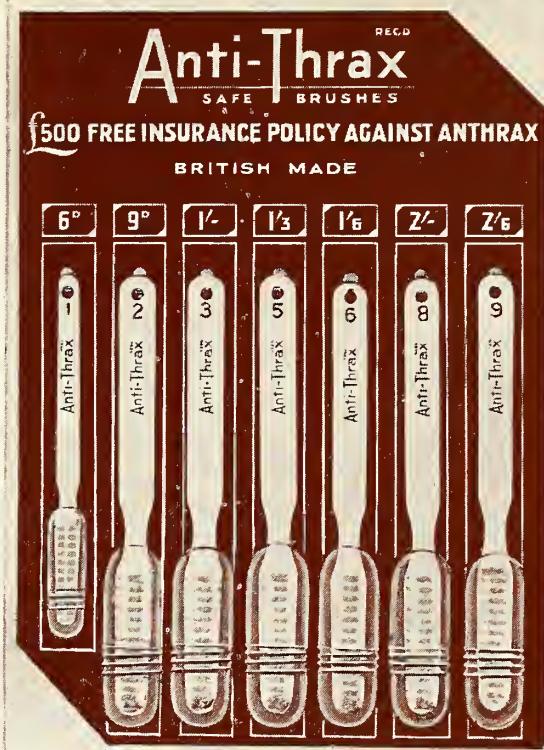
Retail value of brushes **9/6**

Refills.

| Nos. | Short Head | | | | Short Head | | | | |
|------------|------------|-----|-----|-----|------------|------|------|-----------|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Retail 6d. | 9d. | 1/- | 1/- | 1/3 | 1/6 | 1/6 | 2/- | 2/6 each | |
| Trade 4/- | 6/- | 7/6 | 7/6 | 9/3 | 10/6 | 10/6 | 12/6 | 15/- doz. | |



THE BLACK AND WHITE BOX CONTAINING 1 DOZ. (IN TWO LAYERS) TOOTH BRUSHES. ASSORTED COLOURED HANDLES IN EACH BOX.



81% PROFIT OFFER

With TWO SHOWCARDS as above FREE.

Retail value £3 - 10 - 6 **£1 - 19 - 0** Profit on cost 81%

| Pieces | | Retail |
|---|-----|--------|
| 6 Child's, No. 1 | ... | 6d. |
| 6 Four Row Medium, No. 2 | ... | 9d. |
| 12 Assorted Four Row, Long heads, No. 3, and Short heads, No. 4 | ... | 1/- |
| 12 Three Row Ladies', No. 5 | ... | 1/3 |
| 6 Assorted Four Row, Long heads, No. 6, and Short heads, No. 7 | ... | 1/6 |
| 6 Three Row Ladies', No. 8 | ... | 2/- |
| 6 Four Row Gent.'s, No. 9 | ... | 2/6 |

Beautiful Assorted Coloured Handles, each with Patent tube and Insurance Voucher.

STERILISED TWICE. PURE BRISTLE.
NO HORSE HAIR.

BRITISH MADE

Obtainable from Every Wholesaler.

EDWARD HACK, 'Phone :
69 Farringdon Road, London, E.C.1 Holborn 6000

Every day thousands of bottles of ANZORA are sold—it's the hair-fixative that men come to you again and again for! Despite many imitations, ANZORA'S popularity has never been seriously threatened—simply because there's never been anything else as good! Are you handling this quick selling big profit line? Note the new screw cap!



**Every Day
is SALES-
day for**

ANZORA
CREAM & VIOLET
BOTH MASTER THE HAIR

TRADE TERMS:

Small size, re-tailing at 1/- each.

8/- a dozen.

Medium size, re-tailing at 1/6 each.

12/- a dozen.

Large size, re-tailing at 2/6 each.

20/- a dozen.

These prices do not apply to the I. F. S.

Anzora Perfumery Co., Ltd., London, N.W.6

**"All in"
Super Concentrates
COLOGNE PERFUMES**

**ORDINARY
COLOGNE
STRENGTH**

10/- Pint.

Eau de Cologne only.

**TEST
SAMPLE
SUPPLIED.**

**ONE PINT OF
EAU
DE COLOGNE
FOR 1/6,
including
BOTTLE,
CARTON, AND
POSTAGE.**



**TOILET ALCOHOL, 4/- GALLON.
NON-POTABLE.**

By this process, fragrant refreshing Perfumes are possible, costing 1/- per pint, equal to any Continental make.

CLAYTON & JOWETT, Ltd., 46, Wood St., Liverpool.

**EXTRA
COLOGNE
QUALITY
15/- Pint.**

Also the following:
CARNATION.

CHYPRE.

EAU DE
COLOGNE.

FANTASIA ..

JASMIN.

LAVENDER
WATER.

LILAC.

LILY OF THE
VALLEY.

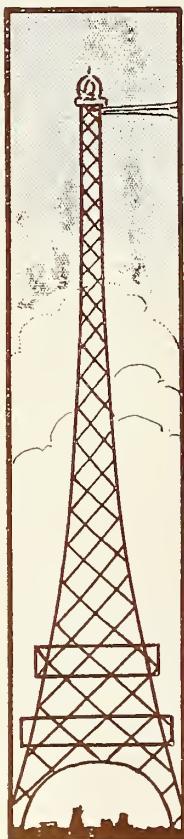
MIMOSA.

OPOPONAX.

SWEET PEA.

VIOLET

and others.



PERMENDA

**40 Words on the Radio
... 6,764 Enquiries by Post!**

A short time ago a brief message about Phillips "Permenda" was broadcast from Radio-Paris—consisting of exactly 40 words. Those 40 words resulted in 6,764 enquiries! This response indicates the tremendous market existing for "Permenda." Judge the sales that will result from the advertising campaign now being launched.

"Permenda" is a permanent remedy for ladders and small holes in stockings. It is unaffected by washing. It is non-inflammable.

This splendid new line is essential to modern women, and will be well advertised in the National Press.

"Permenda" is attractively packed in dainty tasseled tubes, and will be in universal demand. May we send you a trial box of 1 dozen—with showcards and advertising matter?

**Phillips
'Permenda'**
STOPS LADDERS
PERMANENTLY

*Supplies may be ordered through
ALL USUAL WHOLESALERS.*

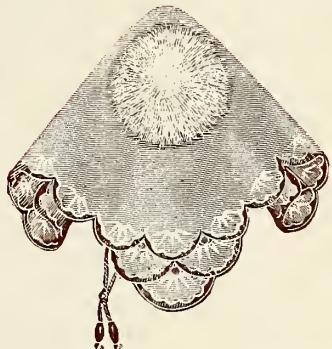
Manufacturers:
Phillips' Patents Ltd., 142-146, Old Street, London, E.C.1
(Makers of Phillips Rubber Soles and Heels).

**RETAILS AT
9/-**



SOME NEW SOLPORT GIFT LINES

NERISSA

Regd

P 1234

POWDER PUFFS

IN GREATER
VARIETY THAN
EVER BEFORE.
ATTRACTIVELY
BOXED READY
FOR
PRESENTATION.
PRICES TO
SUIT ALL
CLASSES
OF TRADE.



P 66H

NO ILLUSTRATION CAN
POSSIBLY DO JUSTICE TO
THESE SPLENDID LINES.
WRITE NOW for SAMPLES.

HOT WATER BOTTLE COVERS
MAKE IDEAL GIFTS
ALWAYS "WARMLY" APPRECIATED.



H 14A

OBTAINABLE
FROM ALL
LEADING
WHOLESALE
HOUSES.
IF ANY
DIFFICULTY,
WRITE US
DIRECT.



W 423

SOLPORT
BROTHERS LIMITED

ACTUAL MANUFACTURERS
184-192 GOSWELL ROAD
LONDON, E.C.I



Creme Siamoise is now being manufactured in England. This famous French product will effect more sales for you. Attractively packed and with handsome Show material, it will prove an attraction to all up-to-date establishments. Whilst the high quality is being maintained, every endeavour has been made to keep the prices at a popular level. Advertising has already begun and an intensive campaign is being developed.

PRICES :

CRÈME SIAMOISE

Nuit and Jour.

LAQUE SIAMOISE
(Cream Rouge)

| | Dozen | Jars | 2/6 ... 20/- Dozen |
|----------------------------|--------------|------------------------------|--------------------|
| Sac Tubes... | 6d. ... 4/- | POUDRE SIAMOISE | |
| Large „ „ | 1/6 ... 12/- | Small Box 1/6 ... 12/- Doz. | |
| Small Jars... 1/6 ... 12/- | | Large „ „ 2/3 ... 18/- „ | |
| Medium „ „ 2/- ... 16/- | | (Naturelle, rachel clair, | |
| Large „ „ 3/6 ... 28/- | | rachel foncé, rose, blanche, | |
| Mixed „ „ 4/- ... 32/- | | clair, pêche, ocre, | |
| | | mauresque.) | |

13 to the dozen through your Wholesaler or direct from the Sole Sales Concessionnaires for the British Isles and Dominions

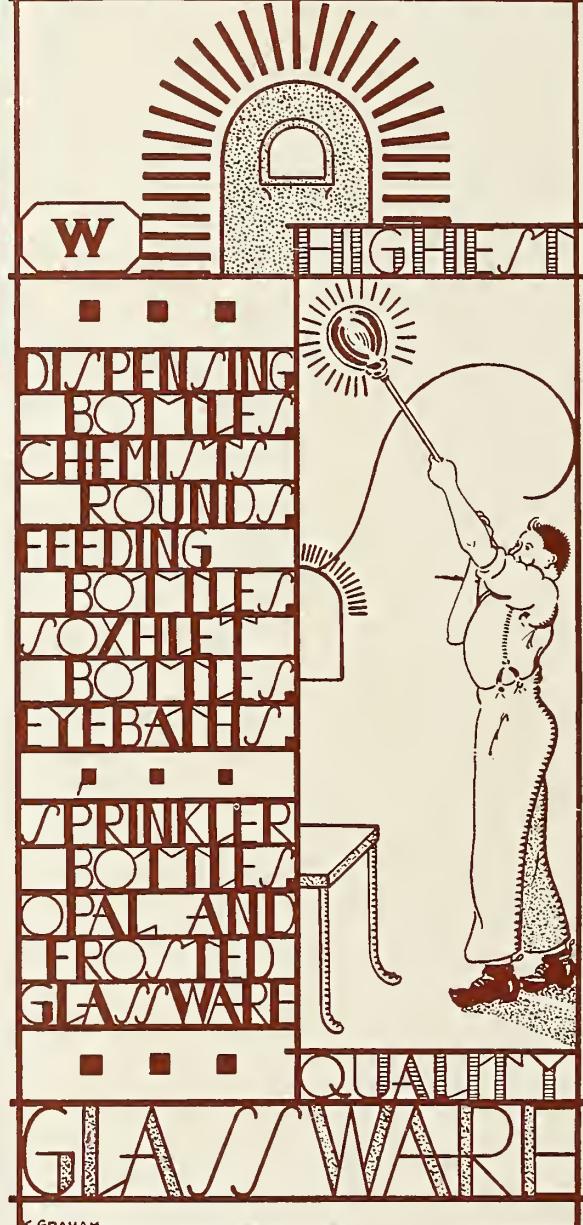
CHARLES ROGER Laboratories Ltd.
15 Great James Street, London, W.C.I.

WRITE FOR SPECIAL DISPLAY TERMS.

Crème Siamoise



PHARMACEUTICAL



DESIGNERS & MANUFACTURERS
OF GLASSWARE FOR PERFUMES
COSMETICS AND BATH SALTS

WOOD BROS. GLASS CO.
LIMITED

(ESTABLISHED 1828)

BARNSTABLE • • • ENGLAND



— the mark of genuine quality that means more sales



★
COMPLETE
YOUR STOCK
NOW
in good time for
CHRISTMAS
TRADE

Write now for Illustrated List and terms and for the Special List of
"4711" CHRISTMAS COFFRETS to the Sole Distributors:
R. J. REUTER COMPANY LTD., 69 Carter Lane, London, E.C.4

**Genuine
Eau de
Cologne**
Blue & Gold Label

★ Remember that it is safe to order large stocks of "4711" Toiletries, as these high-class products are 100% good stock—in constant demand all the year round.



A HAND OF TRUMPS

ARTISTIC
TOILET BOTTLES
BRITISH MADE

Write for illustrated list of bottles and caps.

INTERNATIONAL BOTTLE CO. LTD.

Phones : MET 6161. 48 FORE STREET, LONDON, E.C. 2.
(4 lines.)

'Grams : AUTREFOIS,
London.

Ask CARNEGIE for

**Aloin Chrysarobin Fine Goa Powder
Ephedrine Ext. Filicis Iodides Menthol
Quinine Podophyllin Santonin Strychnine**

**Acids: Acetyl Salicylic, Chrysophanic, Salicylic, Tannic Leviss,
Diethylbarbituric, Phenylethylbarbituric.**

**Alkaloids: Arecoline, Atropine, Berberine, Brucine, Caffeine,
Cantharidine, Emetine, Eserine, Hyoscine, Pilocarpine,
Theobromine, Veratrine.**

**Amidopyrine, Citrates, Hexamine, Jalap Resin, Methyl Salicylate,
Phenacetin, Phenazone, Salicine, Scammony Resin, Soda Salicylate.**

WHOLESALE & EXPORT ONLY

CARNEGIE BROS. Ltd.

227 Essex Rd., London, N.1

Telegrams: "Carnebros, London."

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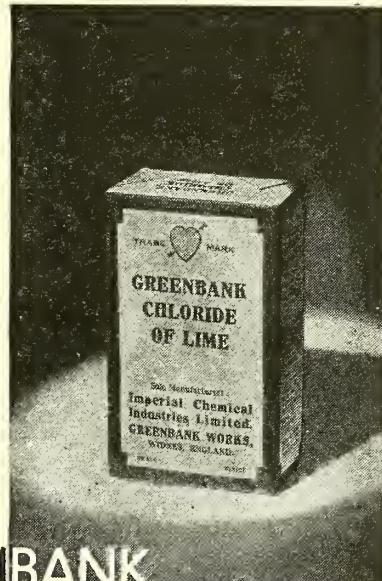
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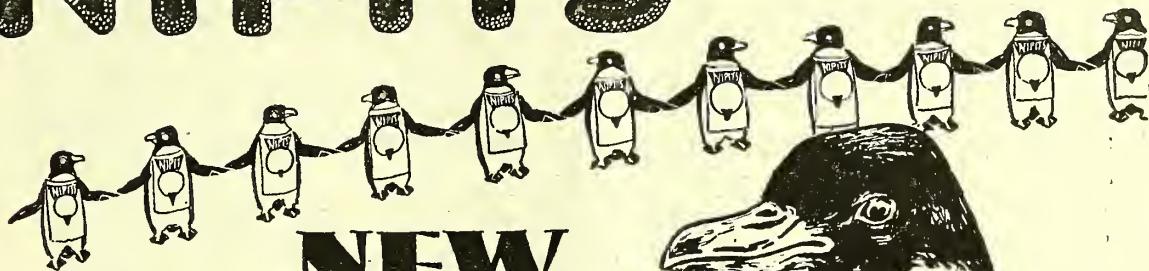
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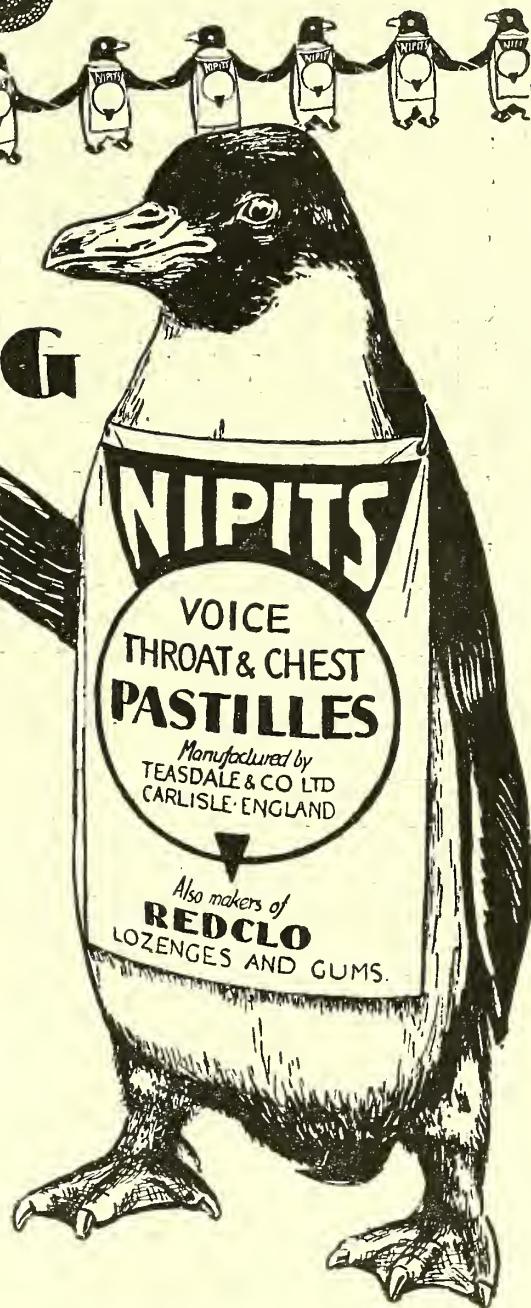


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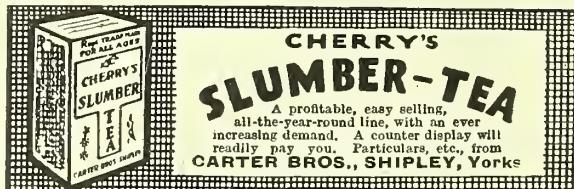
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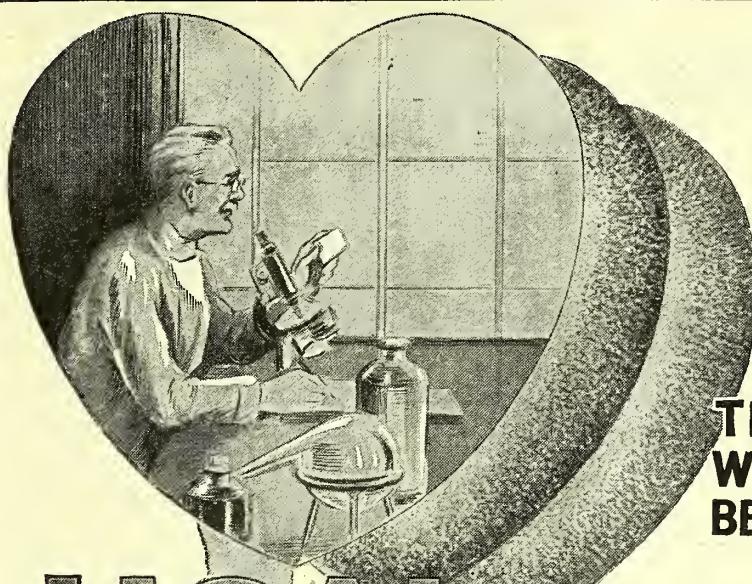
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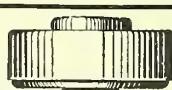
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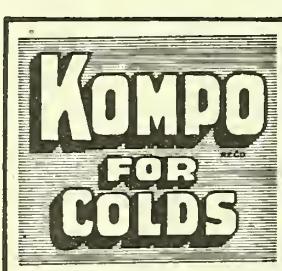
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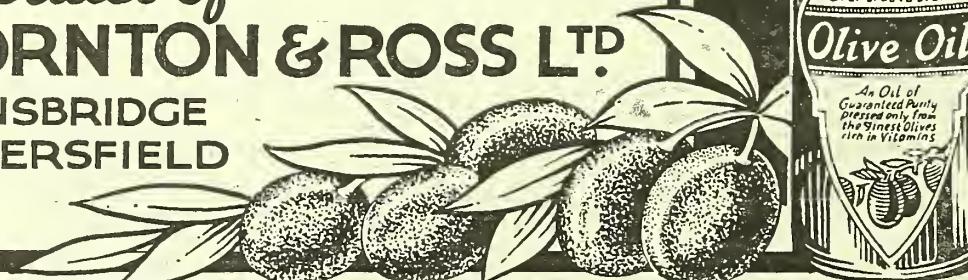


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THE CHEMIST AND DRUGGIST



SUPPLEMENT

28 ESSEX ST.
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SEPTEMBER 24, 1932

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THE CHEMIST AND DRUGGIST SUPPLEMENT

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JUNIOR or Improver, with good knowledge of Dispensing, Window-dressing and Photography. Apply, with full particulars of experience, enclosing photo, stating age, height, and salary required, Bryan, Chemist, Malmesbury, Wilts.

LADY Assistant for Perfumery and Fancy Goods wanted for North Finchley with general experience; references must bear strictest investigation; permanent position. Call at 89 Upper Street, Islington, on Monday, Tuesday or Wednesday evening after 9 p.m.

LADY Assistant required, with good Counter experience; able to do Window-dressing, also assist with Dispensing. State full particulars and salary required. Applications not answered in five days declined with thanks. R. G. Hook, Chemist, 101 Dover Road, Folkestone.

MUR. R. WOOLBY BROOKE has a vacancy for a tall, unmarried, qualified Junior Assistant (male), age not over 23, for a best style Dispensing business. Applicants are asked to send full particulars of themselves and their experience, by post, to "B," 19 Gloucester Road, S.W.7. Letters unanswered after three days respectfully declined.

PART-TIME Assistant for evenings, 6 p.m. to 8 p.m., Monday to Friday (five nights). Please state experience and salary required; suit student; London, S.E.1. 279/20, Office of this Paper.

QUALIFIED Chemist-Optician required for Locum for one week in October, preferably October 9-15. Please state age, salary, experience, to R. Lindsay, The Arcade Pharmacy, Littlehampton.

QUALIFIED Assistant required; under 30; good references essential; must have had good all round experience. Ullett, 198 Rye Lane, London, S.E.15. Letters not answered in three days declined.

QUALIFIED Assistant for Retail Pharmacy; salary and share profits in return for small investment, returnable and fully secured; excellent prospects; highest references. 282/8, Office of this Paper.

QUALIFIED required with a knowledge of Optics, also Agricultural business; Welsh speaking; single; age not under 20 and not over 45; abstainer; live in; must be obliging to customers and good Counter-hand; comfortable berth. State salary and references, which must stand investigation. 282/31, Office of this Paper.

RELIABLE Assistant required for Country Business; agricultural, Dispensing, etc. State experience and salary required. F. E. Harris, Chatteris, Cambs.

UNQUALIFIED Assistant (male) wanted for branch; under 30 preferred; must be accurate Dispenser and accustomed to quick Counter trade. Apply, stating age, experience, salary required, to Head Office, Wm. Fox & Sons, Ltd., 109, 111, 113 Bethnal Green Road, London, E.2. (10 minutes from Liverpool Street.)

UNQUALIFIED Assistant (male), about 26, wanted for South Coast; good Counterman and Window-dresser, accustomed to high-class Toilet trade. Please give full particulars of experience, age, height, references, and state salary required. 282/19, Office of this Paper.

WANTED, Improver or unqualified Assistant; must be quick and accurate Dispenser; good Window-dresser essential. S. E. Greenwood, M.P.H.S., Bolsover, near Chesterfield.

WANTED, Qualified Assistant; must be courteous, obliging and a capable Dispenser; permanent post for suitable applicant. Apply Johnston's, Cash Chemists, 194 Trundley's Road, S.E.8. Phone: New Cross 2538.

WANTED, Junior Assistant and Improver; middle-class suburban business, with N.H.I. Full particulars in letter to 281/29, Office of this Paper.

YOUNG lady Assistant wanted for good-class suburban business; must be neat and accurate Dispenser and used to general Counter trade. Full particulars, references and salary required to E. Collinson, Chemist, Park Road, Timperley, Cheshire.

WHOLESALE.

COMMISSION offered to Travellers to carry Mosans Pessaries, etc., in the provinces. State ground covered. 280/22, Office of this Paper.

ADVERTISED Sideline for Representatives calling on Chemists. Well-established Manufacturing Chemists require Travellers to handle remarkable advertised line on exceptional commission; must have excellent connection; exclusive territory and commission on direct business allowed; state age, lines carried and territory worked; a substantial income is being made by existing representatives. 209/501, Office of this Paper.

MANUFACTURING Chemists require Assistant with knowledge of Agricultural, Horticultural and Veterinary trades; good office and correspondence experience essential, in addition to Laboratory work; state age, education, experience and salary required. 280/23, Office of this Paper.

MANUFACTURING Chemists require fully experienced part-time Representative for Eastern Counties and Southern Midlands; existing connection capable of large extension; part expenses and liberal commission. 210/516, Office of this Paper.

NOBBY'S PRODUCTS, LTD., of 4 Cannon Street, Manchester, require Representatives for the Midlands, South Wales, South Coast, Yorkshire, Lancashire, Northumberland and Scotland. Nobby's Brewing Extract is being extensively advertised to the public. This line offers immense scope to really live men. Only salesmen with a good connection required—other lines not objected to. Excellent prospects to right men. Applicants should apply by letter to the above address, giving fullest details of experience, etc., particulars of any other lines carried, and the usual references.

PROGRESSIVE Distributing Company is looking for young and capable Representatives to assist in increasing the sales of several well-known Proprietary Lines. Please give fullest details of experience, and state age, salary, and if car owner. Applications will be treated with the strictest confidence. Apply "P. H. E.", 210/513, Office of this Paper.

QUALIFIED Chemist required, resident in Birmingham district, with experience in detailing Dental Profession and having connection with Retail Trade; age not exceeding 35; able to drive car. Write, giving fullest details of education, experience, age, and remuneration required, to 210/510, Office of this Paper.

REPRESENTATIVE for Bristol for new advertised article; age not over 35; start October 3; good connection with Chemists and selling record essential; salary and commission. Full particulars to Box 90, c/o C. Vernon & Sons, Ltd., 38 Holborn Viaduct, E.C.1.

REPRESENTATIVE required to call on Medical men in North-West England; Sales and Propaganda; age 26-36; must have some knowledge modern Therapeutics. Full particulars as to past experience, married or single, and present salary, to 281/37, Office of this Paper.

REQUIRED, sound Representatives for (1) North-East Coast, (2) South Yorks, North Notts, Lincoln, Derbyshire, (3) Lancs, Cheshire; must thoroughly understand Drug trade. Apply, with fullest particulars of experience, age, etc., 280/7, Office of this Paper. No stamped envelopes.

SITUATIONS WANTED.

RETAIL (HOME).

2s. for 18 words or less, 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

A.A.A.A. —UNQUALIFIED, 24, free October 1, desires permanency; good all-round man, Dispensing, Counter, Window, etc.; undeniable references. Thomas, 30 Frampton Road, Hythe, Kent.

A.A.A. —CAPABLE Assistant, 24, unqualified, desires good-class permanency in or near London; accurate Dispenser and good Counterman; 8 years' London and provincial experience. "Fingle," Devonshire Road, Merton, S.W.

A.A.A. —ASSISTANT, qualified, 37, seeks situation; good-all-round experience, London and provinces; London district preferred. 279/19, Office of this Paper.

A.A. —ASSISTANT; unqualified; 25; Part I; high-class experience, Dispensing, Counter, Photography and Window-dressing; good Prescriber; keen; energetic; has managed. Dakin, 335 Derby Road, Lenton, Nottingham.

A.A. —QUALIFIED Chemist-Optician, aged 22, requires Locums or permanency (Square student); chiefly Dispensing; London with little or no N.H.I. preferred as permanency. Apply Jones, 25 Hungerford Road, Holloway, N.7.

A. —COMPETENT, unqualified male Assistant, 28, desires permanency; disengaged; thorough experience Dispensing, Display, Counter; London or suburbs preferred. "Phenacetin," 282/15, Office of this Paper.

A PHARMACIST, 21, tall, desires position; 4 years' experience in industrial town; accustomed to quick N.H.I., D. & P., etc. 282/16, Office of this Paper.

A STEADY, reliable Qualified, 1919, age 36, abstainer, seeks permanency, London; wide experience manager, including Photographic; free October 1. "Chemist," third floor, 8 Leicester Place, W.C.2.

A TRUSTWORTHY unqualified, 40, West-End and City experience, seeks position of trust; take charge; whole or part time; would travel, or invest £400 in good business; London or near. 280/24, Office of this Paper.

A YOUNG lady Dispenser (Hall qualification), 2 years' experience, Birmingham, General Dispensary, desires post with Doctor, Hospital, Institution or Chemist; excellent references. 21 Silverbirch Road, Erdington, Birmingham.

A DAPTABLE requires permanent position; 22; qualified; 7 years' experience; capable Dispenser, efficient Salesman and Window-dresser; Photography; Square trained; highly recommended; free immediately. 24 Herne Road, Bushey, Herts.

A M.P.S., F.S.M.C., 30, experienced Manager, with excellent testimonials, seeks post in South of England. 282/4, Office of this Paper.

A SSISTANT, 25, unqualified, 8 years' experience, quick and accurate Dispenser, Counter, Photography, desires change. 279/18, Office of this Paper.

A SSISTANT, unqualified, 26, seeks situation, anywhere; good general experience; moderate salary; disengaged. "G.," 257 Brincliffe Edge Road, Sheffield, 11.

A SSISTANT; unqualified; 21; male; disengaged; five years' experience; Dispensing, Counter, Photography and Window-dressing. Middleton, Pencerrig, Builth Wells.

A SSISTANT, unqualified, 27, experienced, desires engagement, permanency; Southern Counties; sound references; Dispensing, Counter, Windows, etc. Collins, c/o Mrs. Cummins, Church Street, Sea View, Isle of Wight.

A SSISTANT, unqualified, 24, single, good all-round experience, desires change; Agricultural and Dispensing business preferred; present position 4 years. Particulars to 282/3, Office of this Paper.

A SSISTANT, unqualified, 25, requires permanency in medium-to good-class pharmacy; first-class West-End and provincial Dispensing and Counter experience; moderate salary; commence October 1 or later. 282/5, Office of this Paper.

BIRMINGHAM or Midlands preferred; as Manager or qualified Assistant; 5 years' medium- and high-class experience, Dispensing, Counter and Photographic; age 22; excellent references. Massey, 3 Folly Bridge, Oxford.

BRANCH Manager; 36; married; conscientious; experienced; Photo, Prescribing, Buying; good address and appearance. "Rudiobus," 8 The Polygon, Southampton.

CHIMIST, 23, requires permanency; disengaged October 3; 7 years' experience; salary £3 15s.; excellent references; London or near preferred. Write Cruse, 54 Union Street, Farnborough, Hants.

CHIMIST; qualified; age 45; Locum, permanent, or part time; £3 per week; London only; free on Saturday, 24th; good Counterman and quick, accurate Dispenser; abstainer; good references from London Chemists. 281/19, Office of this Paper.

DISENGAGED; qualified; first-class and all-round experience; good Dispenser; Locum; any distance. "Statim," 28 Torrington Gardens, N.11.

EXPERIENCED, qualified Chemist, 25, acted as Locum for past few months, seeks permanent post or further Locum engagements. 281/11, Office of this Paper.

GENTLEMAN, 28, with excellent all-round experience, keen Salesman, capable of organising, seeks responsible post; free. 280/28, Office of this Paper.

JUNIOR, 20, requires position in good-class Dispensing business; London preferred; passed Part I. Thompson, c/o Strick, Ph.C., New Brighton, Wallasey.

KEEEN business man, 29, married, desires post as Manager; South preferred, but not essential; Window-dressing, quick Dispensing and good Salesman and Photography and Buying. 281/38, Office of this Paper.

LADY Dispenser (Hall), young and energetic, 5 years' experience, desires permanent post with Doctor; London or anywhere South England. Wentworth, 37 Warrington Road, Harrow.

LADY Assistant (unqualified); 11 years' experience; Dispensing, Counter and Window-dressing; age 26. Howell, 29 Henley Street, Stratford-on-Avon.

LADY Assistant (Hall); pharmacy trained; 7 years' London and provincial experience; excellent references. Prince, 105 Up. North Street, Brighton.

LADY; unqualified; 30; capable Saleswoman, Window-dresser, slight Dispensing; 6 years' London experience. Conrad, 23 Harland Road, Lee, S.E.

LADY, capable, unqualified, requires post end of September; 12 years' experience. Holmes, 39 Bendemeer Road, Putney, S.W.15.

LADY Dispenser-Book-keeper (Hall), experienced, excellent references, requires post with Doctor or Institution; country preferred. Miss Abraham, Brookside, Anna Valley, Andover, Hants.

LADY (Hall), thoroughly experienced in all branches of the work, including Photography, requires post. Miss Stone, 6 Eastern Road, Selly Park, Birmingham.

LADY Dispenser, 36 (Hall and First Aid Certificates), requires post with Doctor, Chemist or Wholesale House; would consider Partnership in small established business or opening one with lady or gentleman. 280/34, Office of this Paper.

LOCUM; qualified (pre-war); varied experience; registered N.P.U.; disengaged October 3 onwards. S. Hoskins, "Wood View," Buckfastleigh, Devon.

LOCUM or permanency; 40; unqualified; tall; abstainer; Counter, Dispensing, Photography; well recommended; now disengaged. Alexander, 189 Southampton Street, S.E.5.

LOCUM; qualified; registered N.P.U.; disengaged September 26; experienced. Wood, 272 Albany Road, Camberwell. Phone: Rodney 4244.

LOCUM or temporary; disengaged October 1; age 46; unqualified; West-End experience. "Chemicus," c/o 176 High Street, Hounslow.

MANAGER of branch pharmacy desires change where Optical experience may be gained; already passed Part I of F.S.M.C. Examination; aged 24; single; good character and personality; excellent references. Write 209/503, Office of this Paper.

MANAGER; qualified, seeks change; permanency; 32; married; 17 years' experience; 10 years with present employer; 5½ years branch management. 279/21, Office of this Paper.

MANAGERSHIP desired by qualified gentleman in London or suburbs; 16 years' high-class experience, West End and provincial; present position 5 years manager; excellent references. 281/31, Office of this Paper.

M.P.S. seeks a permanent responsible management or position of trust; married; exceptional all-round references as to ability, character, business ability, etc. "Pyridine," 279/34, Office of this Paper.

M.P.S.; age 22; quick Dispenser, good Salesman and Window-dresser; knowledge of Photography; 6 years' good-class experience in North and South; accustomed to taking charge; highest references; free October 11. Taylor, c/o Knowles, Chemist, 28 Regent Road, Morecambe, Lancs.

M.P.S., F.B.O.A., J.C.Q.O., 30, as Manager or Senior; good experience; London and seaside. "C. O.," 19 Hawthorn Avenue, Thornton Heath.

M.P.S., 50, seeks permanency; high-class experience, West End and provinces; will accept £3 per week (outdoors) or offer; references good. "Statim," 281/39, Office of this Paper.

MR. BRYAN recommends his Junior Assistant for vacancy in good-class Dispensing business; age 21; Part I qualification. Bennett, c/o H. W. Bryan, Chemist, Malmesbury, Wilts.

MR. W. E. GARLICK recommends his Junior Assistant for situation in good-class pharmacy, preferably for Dispensing; four years' thorough training; quick, accurate Dispenser, good Counterman; abstainer; Part I; age 21. J. Worley, c/o W. E. Garlick, Chemist, Chesham, Bucks.

OCTOBER 3 to 8 inclusive; qualified; excellent experience. London and provinces; South Wales preferred; disengaged October 18; any distance. Howell, c/o Milne, Chemist, Malpas Road, Newport, Mon.

PART-TIME, Manchester, evenings, all day Saturdays; commence October. Particulars from Wood, 10 Park Road, Edmonton, London, N.18.

PHARMACIST, 36, seeks permanency; any district; 12 years' managerial experience; well recommended; free at short notice; interview arranged. 279/23, Office of this Paper.

PHARMACIST desires position, home, abroad; alert; energetic; ambitious; excellent references and experience, East and West London and provinces. "Radix," 29 Bridge Street, Catherhead.

QUALIFIED gentleman, 33, single, 5 ft. 7 in., good appearance, disengaged, desires position as Dispenser or Assistant; London or South of England preferred; salary £3 10s. Apply 279/40, Office of this Paper.

QUALIFIED, rapid Dispenser, desires post; Doctor or Institution; Locum or permanent. Miss Smith, Sutton Hall, Sutton, Woodbridge, Suffolk.

QUALIFIED, 29, seeks change, as Manager; thoroughly experienced all branches; present position West End; 6 years; London or suburbs; free one month. "Pharmacis," 61 St. Mary's Road, W.5.

QUALIFIED; age 24; 7 years' all-round experience, high-class Family and Dispensing business; competent; reliable; trustworthy; excellent references; Lancs, Cheshire, North Wales. Boscow, Booth's Hill, Lymm, Warrington.

NAMES AND ADDRESSES.

When sending advertisements for any of the sections in this Supplement, advertisers—as a guarantee of good faith and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not followed and delay and disappointment ensues. Strict attention to this detail will be appreciated.

QUALIFIED; Pharmacy, Optics; active; keen; middle-aged; thoroughly experienced; reasonable remuneration; abstainer. "E." F.B.O.A., 10 Westgate Terrace, S.W.10.

QUALIFIED, male, 23, height 6 ft. 3 in., seeks post as Assistant; London or provinces; free September 26; useful all-round experience; interview essential. S. M. Cotter, 30 King Henry's Walk, Mildmay Park, London, N.1.

QUALIFIED; 40; experienced, town and country; good references. Gibbs, The Cottage, Hampton House, Evesham.

QUALIFIED Assistant, 21, seeks post; Counter, Dispensing, Photography, etc.; excellent references. Wilkinson, Pilkington, Mankinholes, Todmorden, Lancs.

QUALIFIED; 24; tall; conscientious; ambitious; Manager or Assistant; all-round experience; personal references; moderate salary; disengaged. 282/13, Office of this Paper.

SCOT, qualified, experienced in England and Scotland, desires situation as Manager or Assistant; disengaged; at present in London. P.C.B. 48/28, Office of this Paper.

SCOTCH; unqualified; 10 years' experience, Dispensing, Counter, Window-dressing; good Prescriber; free October 2; Staffordshire preferred, but not essential. 280/36, Office of this Paper.

SOUTH OF ENGLAND.—Chemist's daughter, age 23, seeks post in pharmacy; good Dispensing and Counter work; 5 years' experience; references supplied. Replies to "J. K.", c/o British Drug Houses, Ltd.

THIRTY Years' experience, requires engagement as Manager or Locum; good London and provincial experience; age 48; teetotaller; disengaged first Monday October. "Qualified," 86a Oakhill Road, Horsham.

TWO years qualified, 23, with varied experience, requires Locum or permanency; recommended. "Chemist," 70 Cowesby Street, Moss Side, Manchester.

UNQUALIFIED lady desires change; 10 years' experience, Dispensing, Counter, Window-dressing; competent and reliable; Birkenhead, Chester district preferred. 280/2, Office of this Paper.

UNQUALIFIED Assistant, 26, tall, 10 years' experience, Dispensing, Counter, Window Display; desires change; North London or Tyneside preferred. Boyack, 106 Hampden Road, Hornsey, N.8.

UNQUALIFIED; keen; energetic; plenty of initiative; up to date; versed with modern conditions and windows; married; age 40; 7 years last situation; left through death of proprietor; moderate salary; London or suburbs. 281/18, Office of this Paper.

YOUNG, qualified, 4½ years' London, medium- and working-class, seeks permanency; London area; free now; thoroughly trustworthy. "Selo," 274/28, Office of this Paper.

£150.—SMART, qualified, 36, seeks permanency or Partnership; keen business man. "Harpden," 9 Etruria Road, Basford, Stoke.

WHOLESALE.

2s. for 18 words or less, 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

ADVERTISER, age 31, 17 years' Wholesale experience, London and Dublin, seeks suitable opening. M. D. How, "Killiney," 15 Hillside Gardens, Potters Bar, Middlesex.

AREPRESENTATIVE, with long-standing connection, highest references, experienced Drugs, Sundries, Toilets, calling upon Chemists, Doctors, Hairdressers, requires engagement. 280/16, Office of this Paper.

ADVERTISER, long inside experience big Wholesale House, Drugs, Serums, Sundries, etc., seeks post as Representative; Lancashire or Cheshire; fully conversant with trade in these districts. 281/4, Office of this Paper.

URGENT!

Firm has for urgent sale RANGE of FIFTEEN SPECIALITIES with Registered Trade Marks, Ideal Inexpensive Formulas, Striking Designs and get up. Original Advertising Plans. Established over 25 years. List and particulars only sent to genuine firms and individuals submitting letter on their printed memos, and enclosing their bankers' names. Specialities will be sold singly or in one lot. Genuine opportunity. Apply "Progress," Office of this Paper.

ENERGETIC Salesman, 28, well educated and experienced, desires position with view of representing good Drug, Toilet or Sundries House; moderate salary; car. 278/26, Office of this Paper.

EXPERIENCED and educated young gentleman requires position as Representative with Drug, Toilet or Sundries House; salary and commission; keen and energetic. 280/33, Office of this Paper.

FIRST-CLASS Representative, prize records, desires position with house of repute; Drug, Toilet or Sundries; excellent references. 279/17, Office of this Paper.

GENTLEMAN, travelling Doctors, Yorkshire, personal connection 20 years with one proprietary, would like one other or panel. 279/8, Office of this Paper.

IRELAND.—Advertiser is open to represent an old-established firm of standing; good connection with leading Chemists; highest trade and bank references. Shaw, 5 Belgrave Road, Rathmines, Dublin.

M.P.S., 23, highest references, 7 years' Pharmaceutical experience, including 4 years Manufacturing and Wholesale, desires post with Manufacturing Pharmacists at home or abroad; interview appreciated. 279/22, Office of this Paper.

P.H.C. STUDENT, 23, desires position with Wholesale House; five years' experience tablet making, etc. "Thyroxin," 132 Elborough Street, S.W.18.

REPRESENTATIVE, connection Wales, West of England, Home Counties; keen salesman; Retail experience; some experience Medicine and Dental propaganda. 279/5, Office of this Paper.

FOR SALE.

(Articles to the value of £5-£50.)

SHOP-SOILED KODAK GOODS.—Three Kodak Film Tanks for 127, 120, 116; one "V. P. K." Enlarging Camera, Trays, Frames, and other Developing and Printing Accessories, Tripods, Optopod, Kodapod, also one Ensign Popular Camera, Ensignettes and Ensign Cupid Cameras; offers considered; 50 per cent. off retail prices. Apply to R. W. McKnight, Chemist, Carlisle Circus, Belfast.

MISCELLANEOUS.

AFIRST-CLASS PHARMACY, £57 10s.—10 ft. Drug Fixture, 30 drawers, glass knobs and labels, cupboards each side and under drawers; two Show Cases, mirror lined, plate-glass shelves to top section; 6 ft. Mahogany Wall Case; 8 ft. Mahogany Counter, show case front; mahogany and plate-glass Dispensing Screen and Counter, with movable plate-glass shelves. Call or post your requirements. RUDDUCK & CO., 219 and 227 Old Street, London, E.C.1.

ALARGE QUANTITY of Second-hand Showcases from £2 upwards (removed from various jobs); Shop Fittings, Counters, etc., at real reductions. Write requirements or call PHILIP JOSEPHS & SONS, LTD., 90/92 St. John Street, Clerkenwell, E.C.1.

CHEMISTS' FITTINGS.—We hold an immense stock of Drug Fittings, Dispensing Screens, Glass Fronted Counters, Perfumery Cases, Nests of Drawers, Wall Cases, Silent Salesmen, Upright and Flat Counter Cases, Plate-glass Counters, Cash Tills, Display Stands and Glass Shelves, etc., ready for immediate delivery at competitive prices. Write or call for List. F. MAUND & E. BERG (SHOWCASES), LTD., 175/9 and 336 Old Street, London, E.C.1.

CHEMISTS' Fittings, direct from manufacturer; soundly constructed in oak and mahogany; 8 ft. Drug Run, £18; 6 ft. Dispensing Screen, £14; 6 ft. Showcase Fronted Counter, £2 5s.; 6 ft. Wall Case, £11; 6 ft. Glass Counter, £8 15s.; Counter Case, 30 x 24 x 18, £2 5s., etc. Send now for photographs, or call and inspect. MYERS, Complete Chemist Fitters, 134a Kingsland Road, E.2, near Shoreditch Church, Bishopsgate 2524.

CLEAR OUT—your Old or Damaged Stock of Photo Goods
Why keep them any longer? Turn them into CASH.
I GIVE BEST PRICES for Old Films (damaged, fogged or expired dates), Packet Papers, Cards (any sizes), Old Photo Goods or Cameras. Bromide Papers. Plates (all sizes, all makes). Send any goods in the photo line. I buy all, good or bad. Cash per return. A good price for all Cameras. Send them along.
S. E. HACKETT, 23 July Road, Liverpool

CHEMISTS' POLISHED OAK FITTINGS.—10 ft. Drug fitting, 8 ft. Wallcase, 8 ft. Glass-front Counter, 6 ft. Dispensing Screen, two 4 ft. Nests Counter Drawers; low price for lot, or separate. Also Sets in Polished Mahogany for any Pharmacy. See-All Dispensing Screen, 6 ft. long; All-glass Counter, 6 ft. long; Silent Salesman, 6 ft. high, 2 ft. x 2 ft. Don't hunt about. Save money and send to **GEORGE COOK, The Working Shopfitter** (over 40 years' fitting), 27 Macclesfield Street, City Road, E.C.1. 'Phone: Clerkenwell 5371.

MANUFACTURING Chemists, employing detail man calling on London Doctors and Dentists, are prepared to share his services with firm desirous of undertaking similar propaganda. Apply 210/512, Office of this Paper.

TREBLES' for Chemists' Fittings, Shop Fronts, Alterations, new or second-hand. Let us quote for your requirements. Pharmacy Fitters for over a century. 549 Lea Bridge Road, Leyton, London, E.10. Leytonstone 2475.

WANTED, Sifting and Mixing Machine, Gardner "Rapid" preferred, about 30 lbs. or more at a time. Particulars and price to 210/511, Office of this Paper.

EXCHANGE COLUMN.

FOR DISPOSAL.

(Articles up to the value of £5.)

C. & D. "Pharmaceutical Journals," years 1927-31. What offers (lot or part)? Carriage forward. Slinn, Chemist, Rhyl.

WANTED.

CASH REGISTER wanted; National preferred. Write P.C.B. 48/17, Office of this Paper.

HAND TABLET MACHINE; Ureka preferred. 280/59, Office of this Paper.

OPTICIAN'S TRIAL CASE. Particulars to 6 Beaconsfield Road, Southport.

SURPLUS STOCKS.—Any saleable goods purchased for spot cash. Send list. 281/16, Office of this Paper.

THE SUPPLY of SUPPLEMENTS

The clerical work in connection with the posting of spare copies of the Coloured Supplement week by week has increased to such an extent that we have been compelled to reorganise our system of distribution. Our readers will please note, therefore, that in future, instructions can be accepted for not more than six successive issues of the Supplement at a time, and that in every case the name and full postal address should be written on

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The Manufacturers of
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THE NEW RAZORLESS SHAVE
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